



Power Jet Egypt

For Integrated Petroleum Services.

company profile:

Power Jet Egypt

For Integrated Petroleum Services

L.L.C



El Quds School St., 2 City Towers- New Miami – Alexandria – Egypt



Phone: (+2)03-5171309 Mobile: (+2) 01070811343



FAX: (+2)03-5171310

info@powerjet-egypt.com



www.powerjet-egypt.com



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WHO WE ARE?

Company Name: Power Jet-Egypt for Integrated Petroleum Services.

Legal Entity: L.L.C

Commercial Registration no.: 18803 – GAFI

The Egyptian General Petroleum Corporation (EGPC)

Registration No. 37 in 31 Dec. 2024committee

Chamber of Petroleum Reg. No.: 3489/Oil

Management System: (ISO 9001) Apply

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Scope of Work:

Honor Our Company to Present Our Activities as Follows:

1. Ultra High-Pressure Water Jet Pump.
2. Cleaning by Ultra High-Pressure Water Jet Pump.
 - 2.1. Heat Exchanger Cleaning.
 - 2.2. Cooler Cleaning.
 - 2.3. Well Cleaning.
 - 2.4. Towers Cleaning.
 - 2.5. Tank Water Jet Blasting.
3. Cold cutting.
4. Advanced NDT Inspection.
5. Welding Projects.
6. Pigging.
7. Hydrostatic Test.
8. Flange Managements.
9. Zero Flare Gases to electricity.
- 10- Chemical Cleaning.
11. Supplying the services sector.

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1-Ultra High-Pressure Water Jet Pump.

Ultra High-Pressure Jet Pumps Up To 4000 Bar Made in Germany with The Highest Safety Standards of a Digital Control System as Well as The Possibility of Remote Control.

Ultra High-Pressure Jet Pumps are characterized by their ease of movement between units and Critical, narrow places because it's on wheels and isn't fixed on the ground, and doesn't require a crane- winch ... etc.

There are Sensors in the Equipment For UHPWJP
That Operates at Every Feature or Function,
The Sensors are All Powered by Electricity, Sound Alarms,
To clarify & show the error on The Machine's Screens.



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2-Cleaning by UHP Pump.



“We are a leading company in this field, equipped with the latest technologies and machinery, operated by a team of highly qualified and skilled professionals to ensure the highest standards of performance and safety.”

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2-1 Heat Exchanger Cleaning:

UHP jet pumps are utilized for internal and external tube cleaning, ensuring high-quality cleaning performance.



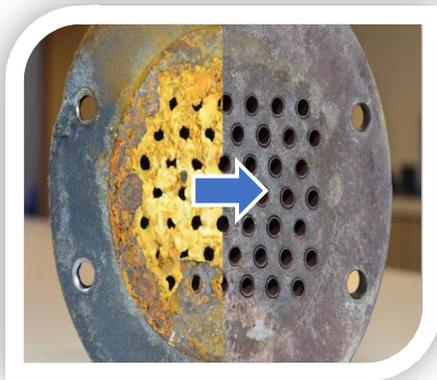
High performance with The Highest Safety Standards (PLC).



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Results:



2-2 Cooler Cleaning.

UHPWJP applies the Air Cooler cleaning system in all narrow places, regardless of the difficulty of the material involved inside the pipes of different small diameters and different lengths.



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2-3 Well Cleaning.

Our UHP water jet pumps are deployed in oil and gas projects for efficient well wall cleaning, ensuring optimal conditions for successful operations.



2-4 Tower Cleaning.

UHP water jet pumps are utilized for efficient tray cleaning from top to bottom, ensuring thorough removal of deposits

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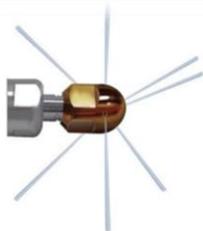


2-5 Tank Bottom Water Blasting.

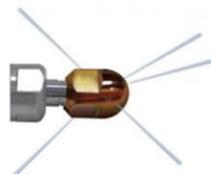
Using the UHP pump to remove the fiberglass layer and epoxy layer, which makes the metal layer visible.



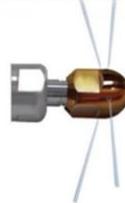
High-Pressure Water Jet Nozzles:



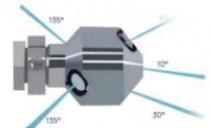
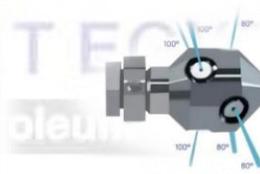
UNIVERSAL



UNPLUGGER



POLISHER





3- Water jet cold cutting technique.

Cold Cutting uses Ultra High Pressure (UHP) Water Jet Pumps, delivering pressures of 40,000–50,000 PSI, to project a high velocity stream of water mixed with abrasive media capable of cutting a wide range of metals. This includes carbon steel, stainless steel, alloy steel, and thick-wall materials with exceptional accuracy, and without creating a Heat Affected Zone (HAZ).

Why... Cold Cutting Is the Ideal Solution for:

- **Maximum Safety:** No heat, no sparks, and no risk of ignition making it suitable for Hazardous Areas (Zone I & II) without shutting down the entire facility.
- **No Metal Distortion:** Produces a clean, precise cut with zero heat impact on the base metal.
- **Minimizes Downtime:** Fast setup and execution reduce shutdown periods significantly.
- **Compatible with Hydrocarbon Environments:** Safe even when product residues remain inside tanks or pipelines.
- **Highly Efficient for Maintenance & Modifications:** Ideal for removing nozzles, cutting flanges, opening manways, replacing sections of pipelines and dismantling steel structures.
- **Advanced UHP** Water Jet Pumps capable of handling the most challenging and critical cutting operations.





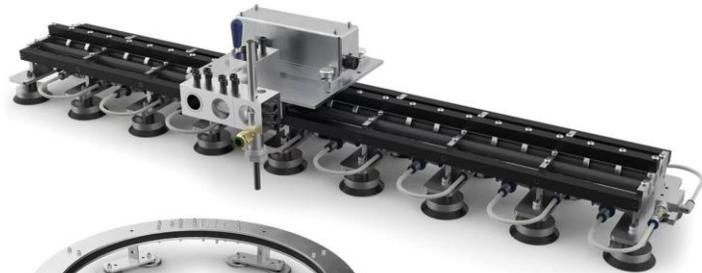
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For Integrated Petroleum Services.

- **Specialized Cutting Heads** designed for straight cuts, circular cuts, flange removal, nozzle cutting, bevel cuts, and customized profiles.
- **Highly Trained** Engineers & Technicians certified and experienced in major petroleum facilities.
- **Extensive Experience** in cutting storage tanks, pits, pipelines, gas lines, crude oil lines, cooling water lines, and various steel structures.
- **Full Compliance** with HSE Standards and operations in confined spaces following ISO 9001 Quality Management and our company's HSE Management System.

cold cutting Heads.

Straight Cutting



Circular Cutting Head



Profile Cutting Head



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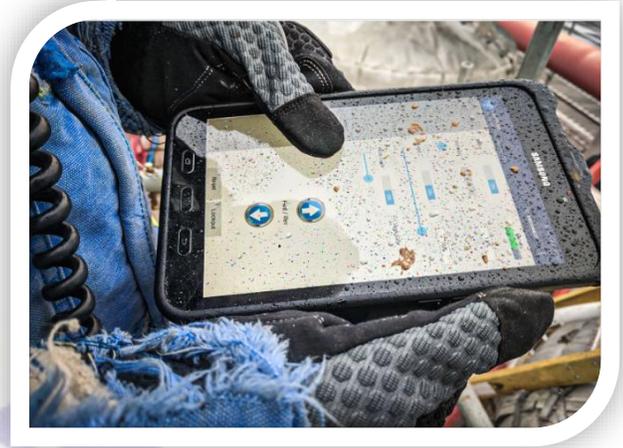
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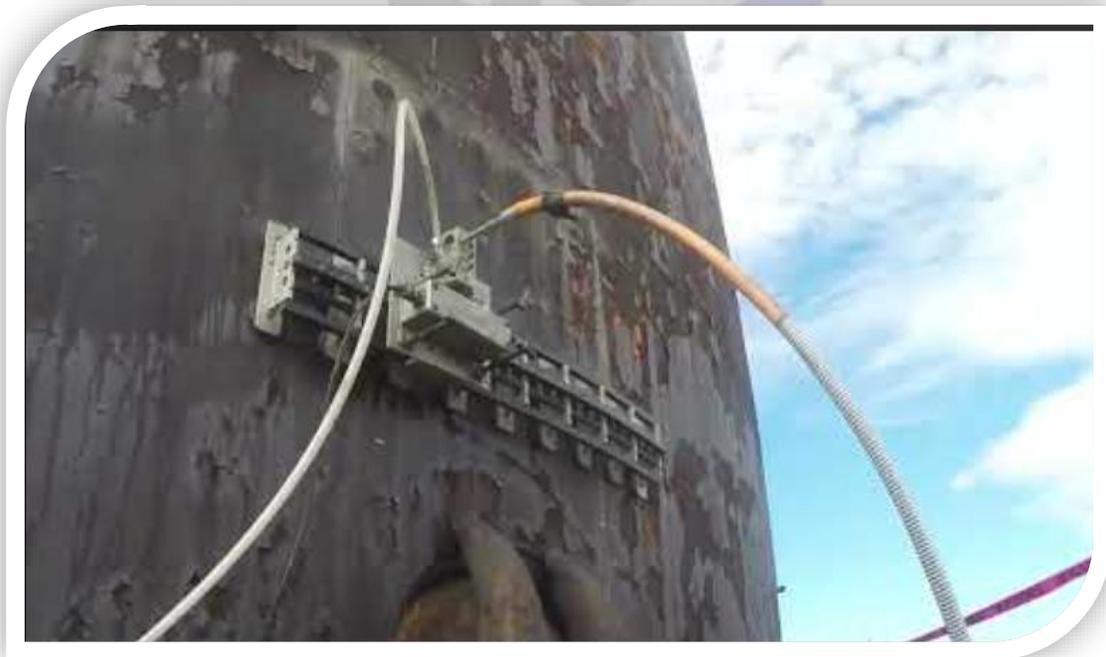


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Remotely opening manholes in tanks by a profile cold cutting head.



Remotely straight cutting in tanks.

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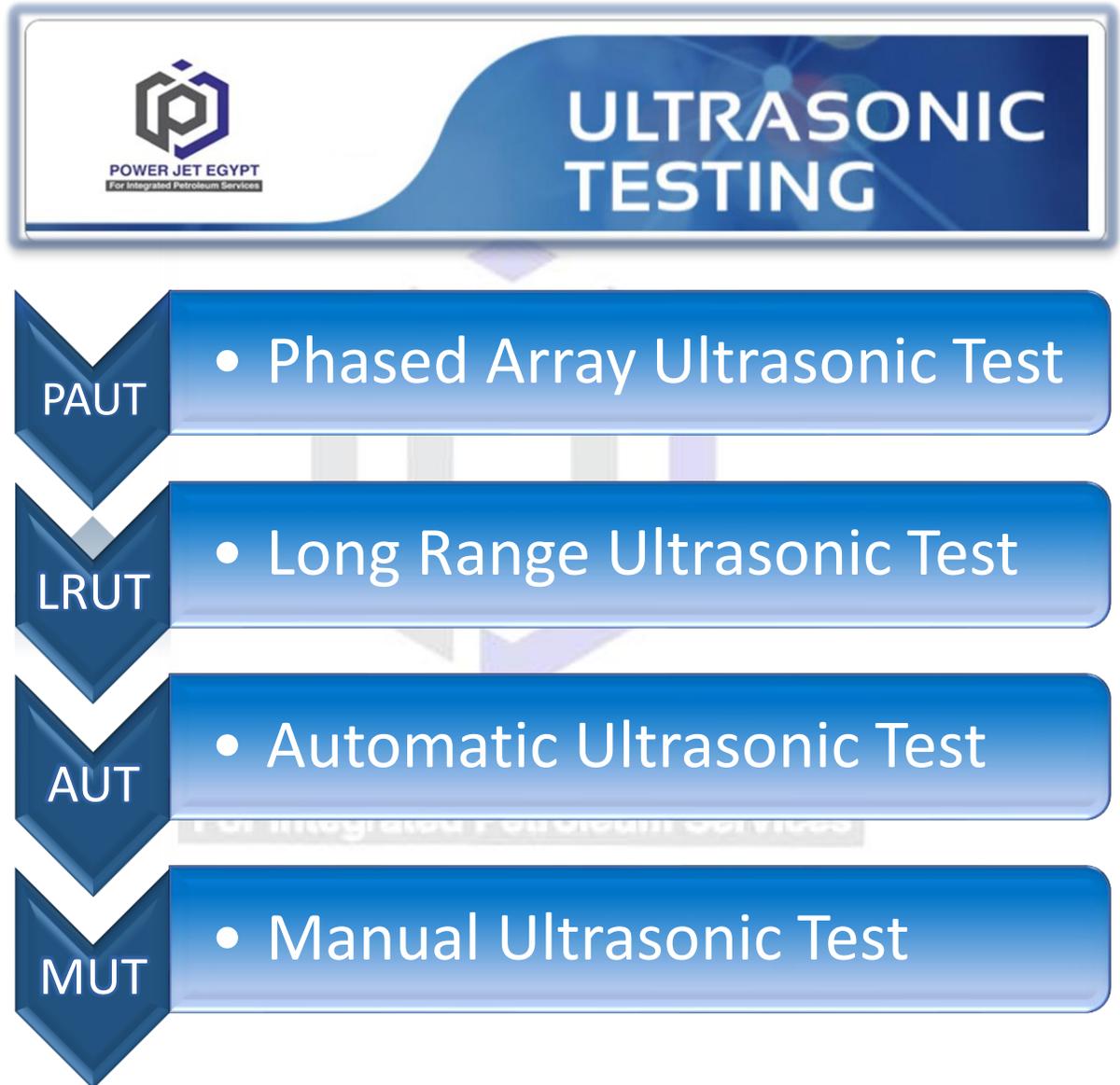
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4- Advanced NDT inspection.





4-1 Phased Array Ultrasonic Testing (PAUT)

Phased arrays are used for a wide variety of inspection and measurement applications, and they can be used for any job done by conventional ultrasonics. For example, phased arrays are used to detect and image defects, including cracks, voids, and pits caused by corrosion.

They are used to measure material and coating thickness and to detect changes in material properties. Another common application is to assess the quality of welds and rivets.

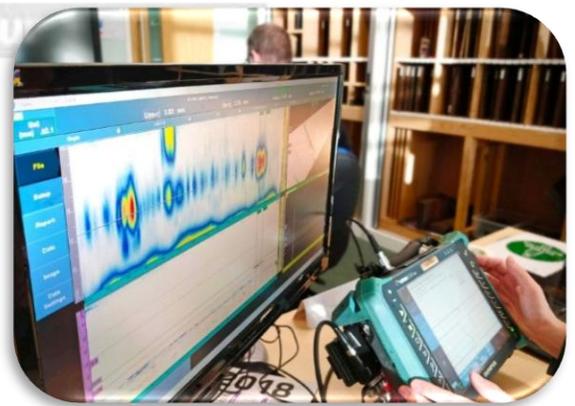
Advantages:

- Multiple-angle scan possible
- Simple Interpretation
- More Production rate
- Data storage
- Reproducibility
- 100% inspection in a single Scan
- Better sizing of Defects



Applications:

- Inspection of girth welds of Pressure vessels
- Corrosion Mapping
- Tube and pipe weld inspections
- Laminations checking



Phased Array Ultrasonic Technique



4-2 Long-Range Ultrasonic Testing (LRUT)

The operation of the LRUT technique is shown schematically in the figure, which uses low-frequency guided ultrasound travelling along the pipe, providing 100% coverage of the pipe wall without moving the transducer tool. Depending on pipe conditions, up to 350 meters of pipework can be inspected from a single test point. LRUT reduces the costs of gaining access and avoiding extensive removal of insulation (where present). The whole pipe wall is tested, achieving a 100% examination (including areas such as at clamps, and sleeved or buried pipes).

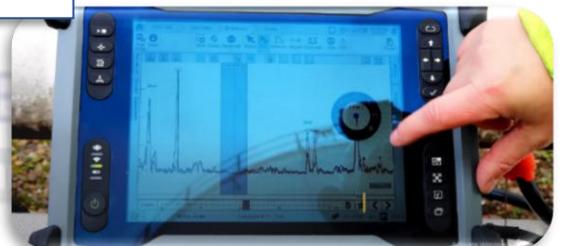
Advantages of LRUT:

- Utilizes lower frequency sound waves (typically 5-250 kHz) for long-range inspection.
- Capable of inspecting large sections of pipelines or structures from a single test location.
- It is useful for pipeline inspection and monitoring large structures with limited direct access.
- It can detect corrosion, cracks, and other defects over long distances, providing a comprehensive overview



Portable

Output signal



easy use



Easy Set-up



4-3 Automatic Ultrasonic Testing (AUT)

Automated Ultrasonic Testing (AUT) uses a multi-channel digital ultrasonic system with a motor-driven scanner to perform on-stream inspection on a wide range of equipment. In AUT, normal Pulse-Echo is used while performing Corrosion Mapping, hydrogen cracking, and other related cracking. TOFD is used for heavy wall reactors, vessels, and piping, and Phased Array for complex geometries (nozzles, branch connections, flange faces, etc.).

Advantages:

- Optimizes the inspection spend.
- Ability to document and present visually the defect size.
- High repeatability allows continuous monitoring of critical flow growth.
- Collect and image data in real-time and store this data in electronic format.
- Minimizes costly internal entry; inspection is performed while in service.
- “Online” inspection promotes efficient planning.
- Comply with regulatory and industry standards and specifications.



Analyze & report on site



4-4 Manual Ultrasonic Testing (MUT)

Manual ultrasonic testing (MUT) uses high-frequency sound waves sent into a material to detect internal flaws (cracks, porosity, inclusions) and measure thickness, acting like sonar by analyzing returning echoes from discontinuities or backwalls, a technique vital for quality control in industries like aerospace, oil & gas, and welding. The basic process involves a transducer, a pulser/receiver, and a display, requiring surface prep and coupling, with skilled operators interpreting signals for location, size, and type of defect



Manual Ultrasonic Technique

Advantages of Ultrasonic Testing:

Generally, UT has many advantages, such as detecting surface and subsurface defects and their size, shape, and position, as well as volumetric defects, with better accuracy than other NDT techniques. It is effective for both thick and thin materials. It requires access to only one side of the material. It is portable and non-hazardous.



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5- Welding Projects.

Offshore Projects



Onshore Projects



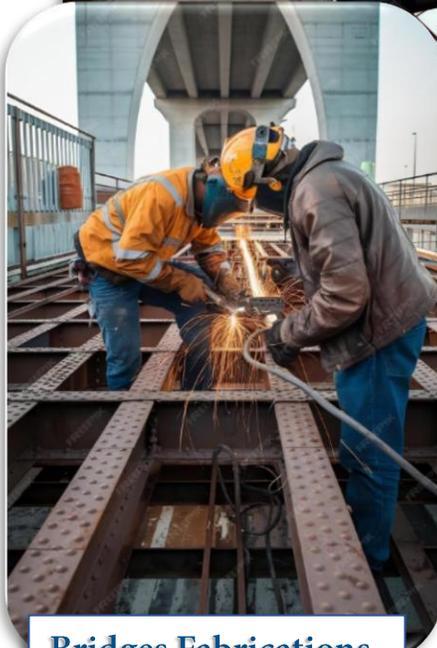
Structure Fabrications.



Piping Fabrications.



Bridges Fabrications.



Tank Fabrications.



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6- Pigging.

Pipeline pigging is a maintenance technique using "pigs" (devices) to clean, inspect, and maintain pipelines without stopping product flow, involving launching a pig into the line to scrape out buildup.

Why is it called "Pigging"?

While often referred to as a Pipeline Inspection Gauge (PIG)

Why It's Important.?

- Maintains Flow Efficiency: Prevents blockages and buildup.
- Ensures Safety: Detects defects before they become major failures.
- Extends Pipeline Life: Reduces corrosion and damage.
- Cost-Effective: Prevents costly shutdowns and repairs.

Types of pigs:

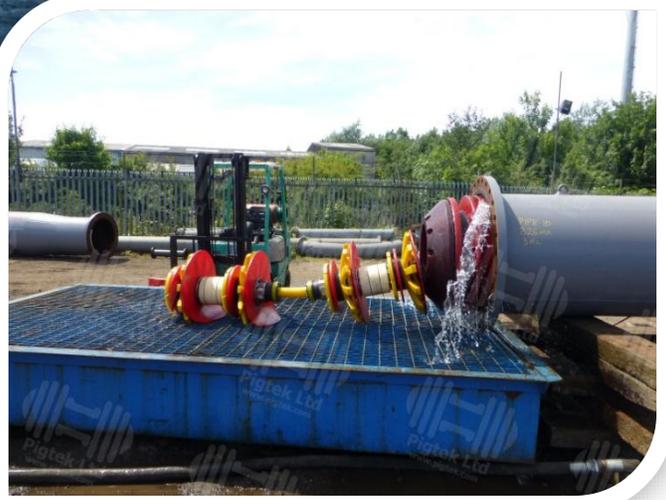
Pipeline pigs are categorized mainly as utility pigs (for cleaning, drying, batching with types like foam, brush, scraper, mandrel) an intelligent smart pigs (for inspection using sensors like MFL or Ultrasonic to detect corrosion, cracks, etc.), with additional specialty pigs for blocking or specific tasks like Gel Pigs and Spherical Pigs, all propelled by product flow or external means to maintain pipeline integrity and efficiency



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Pigging...



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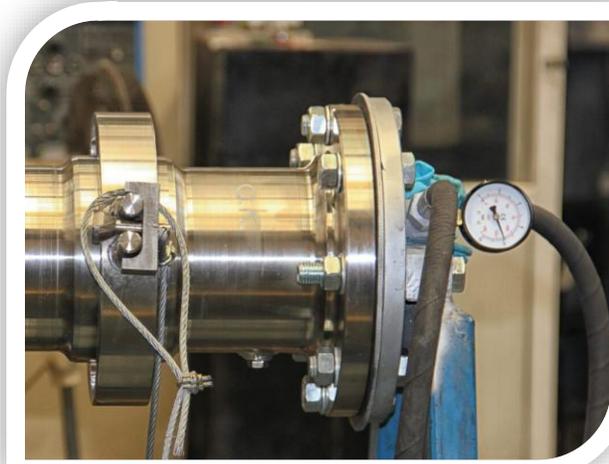
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7- Hydrostatic Test.

(hydro test) For pipelines, a critical safety procedure to check for leaks and structural integrity is to fill the pipe with water and pressurize it above normal operating levels, ensuring it can safely handle its Maximum Allowable Operating Pressure (MAOP) before service.





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8- Flange Managements.

Flange management is the systematic process of ensuring the integrity of bolted flange joints in industrial piping



It's easy ... POWER JET EGYPT
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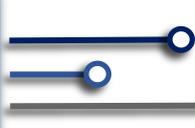
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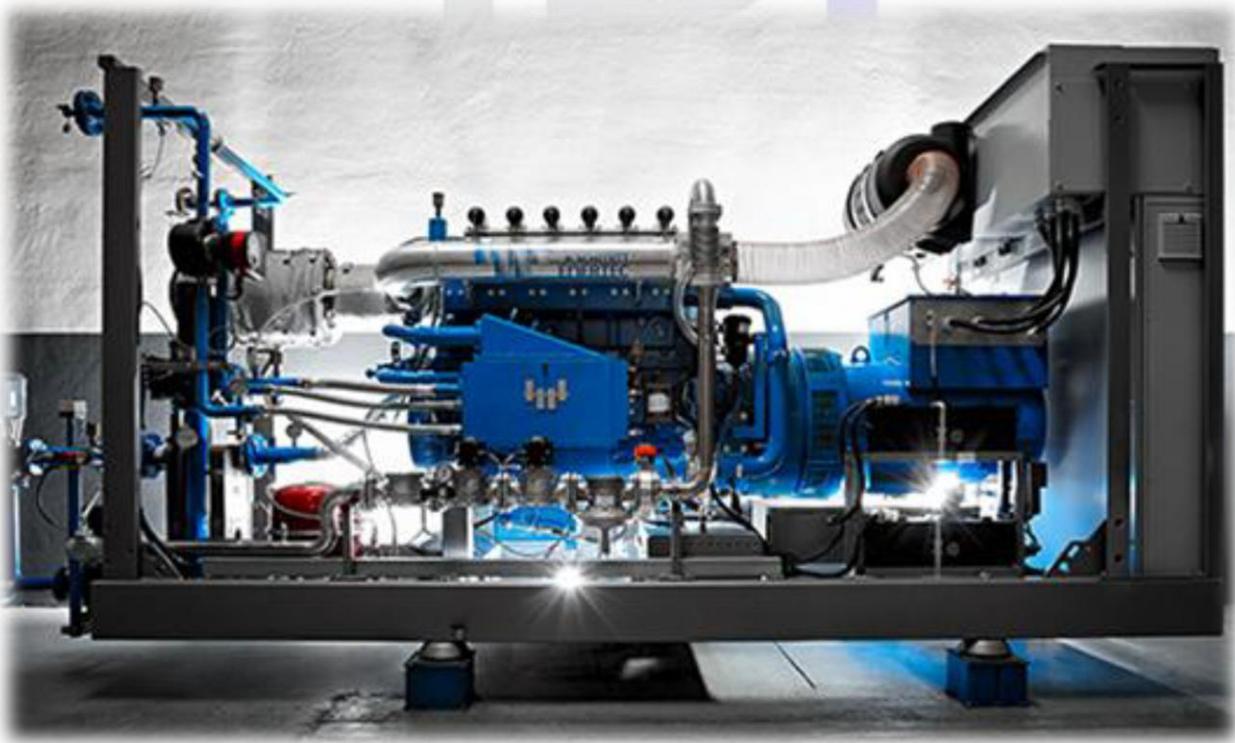


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9- Zero Flare Gases (Generator).

Transforms Flare gases Waste into Electricity.



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10- Chemical Cleaning.

Power Jet Egypt Company's highly-experienced, qualified chemists, chemical engineers, project managers, and trained operatives solve issues and deliver customized chemical cleaning and decontamination services, particularly to the oil, gas, and power generation industries. We use a wide range of cleaning agents and chemicals, including our own proprietary formulations.



11- SUPPLING SERVICES SCOPE.

- Early production facilities
- Smart Well System
- Multiphase Flow Meter
- The Adsorption Nitrogen Plant
- Membrane Nitrogen Stations
- Pumps
- Spare parts
- Catalysts for refinery
- Motors



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We Are Always Ready for the next mission...



Thank you ...

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