



*A Multi-Service  
SPECIALTY COMPANY*

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## COMPANY HISTORY

**In 2012** a group of highly experienced managers and technicians who share over 60 years experience, combined in the heat treatment industry, started the preplanning of Innovative Heat Treatment Solution.

**In 2013** Innovative Heat Treatment Solutions was incorporated and started to serve the different industries that rely on heat treatment, as well as the other primary services we now provide. We have grown our organization rapidly and exceed, but not limited to, all safety, performance and efficiency standards. Innovative Heat Treatment Solution is a company that Our customers can trust and rely on to understand their different needs, as well as the ability to support any size project, with highly experienced personnel.

**Today**, we are a proven multi-service company with a proven history of safety and success.





## OUR MISSION

Innovative Heat Treatment Solutions strives to provide the safest and highest quality of specialty services to our customers with the most competitive rates.

Our goal is to become the most preferred supplier of specialty services worldwide by making safety our **FIRST PRIORITY** and minimizing customer operational downtime while utilizing the upmost technologically advanced equipment and highly professional staff.

We commit to our customers to complete every job on time by integrating safety, quality, and productivity through the commitment of the CEO to our highly qualified Personnel in the field.



## **Safety Mission statement**

"At Innovative Heat Treatment Solutions, safety is our top priority. Our mission is to provide exceptional industrial services to our clients while ensuring the well-being of our employees and the environment. We are committed to promoting a culture of safety, providing extensive training, to keep everyone safe and secure."

-Bene Cansino





Here at Innovative Heat Treatment Solutions we engrain in our workforce the importance and discipline to perform every job and task by following the highest safety standards in our industry.

Everybody throughout our workforce share the same beliefs, from the President to our field workers.



# SAFETY

*We follow our **3-ZERO** goal*

Innovative Heat Treatment Solutions is highly recognized for its special emphasis on safety and quality. Our safety director, having years of experience and expertise in the industry, makes sure to develop, implement and audit all the procedures and processes.

Every effort has been made to establish and strengthen our corporate safety policies and procedures, not just for clients but for employees and other stakeholders.



**Zero** Incidents  
**Zero** Accidents  
**Zero** Near Miss



# QUALITY CONTROL

We are committed to exceeding our client's expectations in terms of Quality and Productivity, without breaking budget limitations and safety compliances. Our solutions are constantly added with value through continuous improvements via training and communications, at all company levels.

As a part of our commitment, our workforce is trained in our inhouse Quality Assurance Programs.

Innovative Heat Treatment Solutions takes pride while performing every given task. Our Quality Control Department monitors and evaluates all projects. Whether it is work being conducted out in the field or in shop, our QA/QC managers maintain a strict and policy driven practice. We follow all given codes, customer specifications, regulations, and guidelines to assure the job is done the right way and efficiently.

Innovative Heat Treatment Solutions believes in investing in Craft Training and furthering one's education.



American  
Petroleum  
Institute

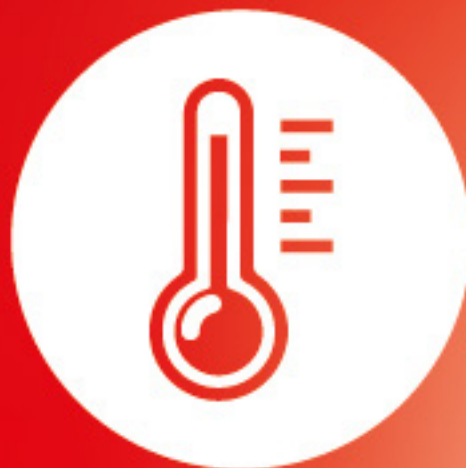




## **Mission Statement Heat Treatment**

Innovative Heat Treatment Solutions is here to provide the highest quality heat treating services to our customers while maintaining a safe and environmentally responsible workplace. We strive to continuously improve our processes and technology to meet the evolving needs of our customers and the industry. Our commitment to excellence, integrity, and customer satisfaction is the foundation of our success.

-Arturo Robledo



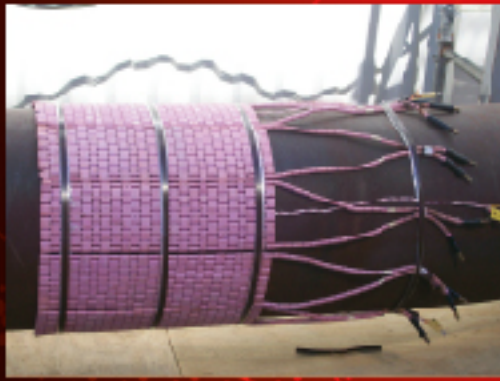
# Heat Treatment

Innovative Heat Treatment Solutions delivers innovational engineered heat treatment solutions that will meet your overall requirements and exceed your expectations. Equating superior equipment with the talent and integrity of our employees, we are dedicated to assisting you with all heat treatment solutions. Our customers benefit from expeditious and cost-efficient heat treating that provides superior metallurgical results.

Innovative Heat Treatment Solutions remains a leader in the heat treatment industry by developing new technologies and fine-tuning our process to meet our customer needs.

Each heat treatment cycle is accurately controlled to meet our rigorous quality requirements in order to meet or exceed industry standards. Innovative Heat Treatment Solutions utilizes advanced technological processing capability in order to assure exceptional results for each job we complete. Whether your needs are small or large you will benefit from Innovative Heat Treatment Solutionsequipment and resources. You will have confidence knowing your products will be Heat Treated to the highest possible standards by Innovative Heat Treatment Solutions.

## *Piping*



## *Vessels*



## *Optional Services*

- **WELDING PRE-HEAT**
- **POST WELD HEAT TREATMENT (PWHT)**
- **LINE THAWING**
- **HYDROGEN REMOVAL (BAKE OUT)**
- **ANNEALING AND NORMALIZING**
- **DECONTAMINATION**
- **REFRACTORY DRYOUT**
- **PAINT CURING**
- **EXPANSION HEAT TREATMENT**



# ***Combustion***



Most heat treatment processes require accurate control of the material temperature. With the initiation of fast acting combustion burners and burner control systems, it is easy to implement very responsive control to the process.

Burners are designed to deliver the amount of heat required for the task being performed, commonly from 1 to 10 million BTUs. In addition to the commonly used burners, systems multiple safety interlocks and redundancies are integrated.

We are fully equipped to PWHT vessels over 120' long and any diameter. With our knowledgeable and experienced team, we ensure the structural integrity of your vessel during PWHT, while using state-of-the-art combustion equipment with all mandatory safety features.

## ***The combustion method is typically used in following applications:***

- POST WELD HEAT TREATMENT OF LARGE VESSELS, TOWERS, REACTORS, ETC.
- REFRACTORY DRY OUT
- SPACE HEATING
- COATING AND LINING CURES
- GLASS FURNACE START-UPS



## **Mission statement mechanical division**

"We build environments that unlock potential, inspire performance, and deliver peace of mind. Working as One with customers and each other, 3 Innovative Heat Treatment Solutions leverages our expertise and work ethic to provide responsive mechanical solutions for all Petrochemical institutions and Industrial sectors. Whether it is in our home state of Texas, across the country, or anywhere else in the world we will always stride to provide the best that we have to offer."

-Ulysses Aguero





## ***Turnaround / Shutdown***

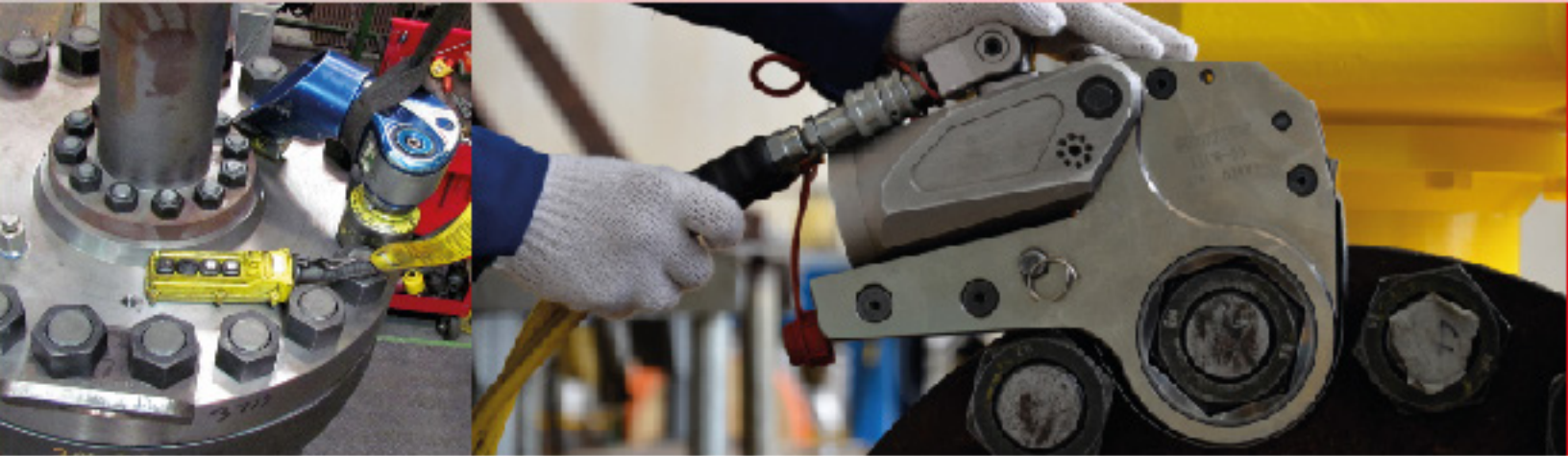
Innovative Heat Treatment Solutions has the people, programs, and experience to provide the safety support you need during crucial start-up, turnaround and shutdown periods. We've developed an internal system proven for start-up and turnaround services that can help improve safety, decrease start-up issues, and increase turnaround efficiency at your site.

We stand proud when assisting in Turnarounds / Shutdowns. From the scheduling to planning we strategize for the best possible outcome. Coordinating accurately and strategically we assure our projects meet all deadlines as accurately as possible, while meeting and not exceeding the project budgets. We understand how important it is for a facility to be up and running. Starting strong and finishing strong, with quality and safety as a culture, we apply all our team efforts and resources to make it happen.

## ***Maintenance Services***

Major facilities always need to function properly even when unexpected issues may appear. Innovative Heat Treatment Solutions offers a vast variety of services coordinated Maintenance to assist in the prevention with daily key task to keep your process lines and equipment running how they should. Innovative Heat Treatment Solution offers a wide variety of services to help in many different needs. Along with highly knowledgeable people we provide the correct and most efficient tooling.





## ***Precision Bolt Torquing***

Innovative Heat Treatment Solutions Bolt Torqueing Services surpass just tightening a bolt. We provide our customers with analysis, development of procedures, engineering support, training, inspections and consultation. This includes proper training and competency, utilization Innovative Heat Treatment Solutions state of the art tools and components, and the development of a set of processes and procedures to ensure quality and transparency to our customers.

Innovative Heat Treatment Solutions internal procedures comply with ASME standards as well as API Standards to assure that all bolting activity from break out, inspection and assembly to the tightening in accordance with a well-defined industry standard.



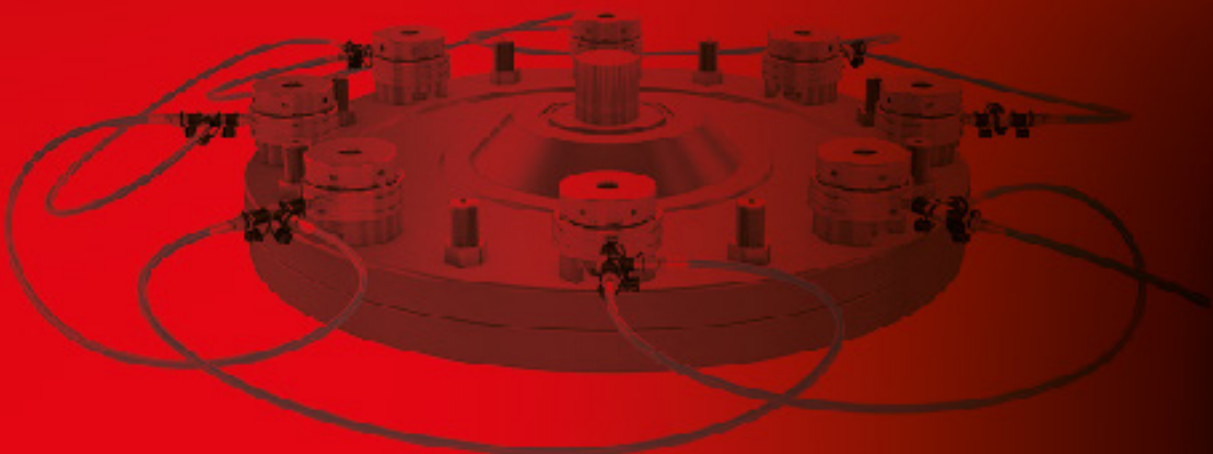




# ***Bolt Tensioning***

Innovative Heat Treatment Solutions and its highly experienced workforce also understands the need of bolt tensioning. The objective of tensioning is to stretch the bolt, or stud, to a predetermined load, by using force to elongate the shank. This is accomplished using a pulling or pushing force which is created by a hydraulic cylinder. The nut can then be seated manually using a wrench. It is necessary to have some extra thread above the nut, which is used to attach the pulling cylinder but is removed after completion.

Tensioning is the direct axial stretching of the bolt to achieve preload. Inaccuracies created through friction are eliminated. Massive mechanical effort to create torque is replaced with simple hydraulic pressure. A uniform load can be applied by tensioning multiple studs simultaneously. Tensioning requires longer bolts, and a seating area on the assembly around the nut. Tensioning can be done using detachable Bolt Tensioners or Hydraulic Nuts







# ***Pressure Testing***

We at Innovative Heat Treatment Solutions, offer different testing solutions that meet our customers needs. Our most popular testing solution's are Hydro and Pneumatic testing. We are capable of testing below 10 psi- and as high as 30,000 psi. When planning for any type of testing, we balance the need vs the risk and assist our customers with process and procedures to prevent a catastrophic event.





# ***Hydrostatic Testing***

Hydrostatic (Hydro) Testing is a process where components such as piping systems, gas cylinders, boilers and pressure vessels are tested for integrity and durability. This service is often required after shutdowns and repairs are completed to validate that the equipment will operate as designed. DOT Hydrostatic testing is required when a process line is permanently underground.

Whether it becomes a tie in point or a riser for meter skids, these test often consist of longer testing times and require vigorous procedures to be followed. By performing these test, our clients can provide a safe environment for the surrounding areas.

# ***Pneumatic Testing***

Pneumatic testing involves the hazard of released energy stored in compressed gas/air. It is recommended to be used only when piping systems are so designed that they cannot be filled with water. Pneumatic, or when piping systems are to be used in services where traces of the testing medium cannot be tolerated.





# ***Machining Services***

3 Innovative Heat Treatment Solutions offers field machining services that enable cost-effective repairs of a variety of parts and equipment on site and at our shop 24-hours a day. Our machining services are ideal for new construction projects, modifications, planned shutdowns and emergency repairs. Our state of the art equipment has the capability to mill, bore, trepan, drill or carry out any other machining activity normally associated with a machining facility. Process equipment can sometimes be impossible and uneconomical to take over to a shop or offsite.

That is why we offer highly trained and experienced personnel to repair the equipment without the need to strip it out or move it to a repair facility.

This saves down time, which leads to great cost savings to our customers.

**We understand the need of our customers, and that is why we offer the following:**

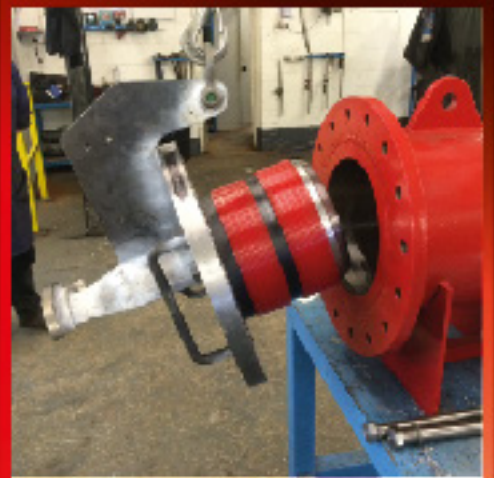
- LINE BORING
- DRILLING AND TAPPING
- FLANGE RE-FACING
- 3 – AXIS MILLING
- FOUNDATION MILLING
- KEY MILLING
- PIPE CUTTING & BEVELING
- SPOT FACING
- GASKET SEALING
- SURFACE INSPECTION



# ***Pipe Isolation & Plug Installation***

Isolation plugs allow minimal downtime for unpressured testing of open-ended piping systems. Test plugs (reusable) are temporary end closures that simplify pressure testing piping systems, pipe spools, pipe racks or pressure vessels.

Test Plugs Eliminate 80% of time spent welding-on and cutting-off end caps. Use of the safety gag is designed to prevent the plug from exiting the designated testing area by limiting its travel and changing its direction.



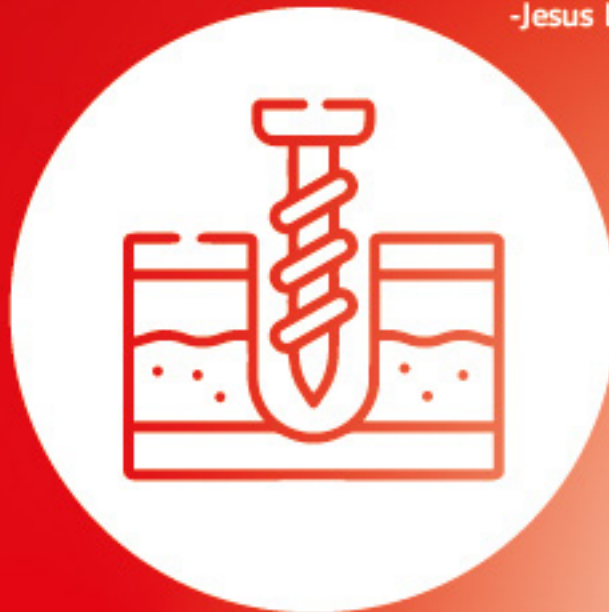
Positively isolate and monitor potentially explosive vapors during hot work, then hydrotest new weld connections with one simple to use tool. Dual port design creates a positive pressure barrier between the seals, safely isolating the hot work from any residual upstream gases.



## ***Mission Statement Drilling Department***

Innovative Heat Treatment Solutions provides reliable, efficient, and cost-effective drilling solutions to our clients while upholding the highest standards of safety and environmental responsibility. We strive to continuously innovate and improve our techniques, equipment, and services to exceed our customers' expectations and remain a leader in the industry.

-Jesus L. Solitaire

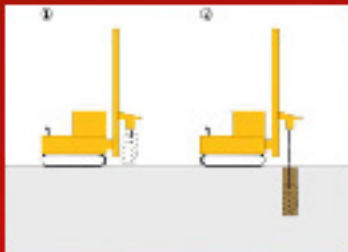






# ***Drilling Services***

Employees are empowered to stand up for safety at any cost. The culture of safety is ingrained through the corporate safety policy & procedures. We commit to our employees and customers, to providing the safest work environment in our industry.



Innovative Heat Treatment Solutions, is committed to providing the highest quality services in our industry, while continually meeting the clients expectations in a safe and cost effective manner. We follow all code requirements during drilling operations to maintain the integrity of the structure that will be set in place.



*Dear Customers,*

*Thank you for taking the time to read through our portfolio. All our customers are treated like a team member and your needs are our needs. We strive to build a relationship with each customer that will help both you and I grow in this industry. We look forward to any opportunity to provide you with our services.*

*Sincerely,*

**Juan L Solitaire**  
**President**



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