



PT. HYDRA ASIA ENERGY

Industrial Engineering Solutions

- *Mechanical Installation*
- *PreCommissioning & Commissioning*
- *Pipeline Pigging & N2 Purging*
- *Pipeline Maintenance*
- *Nitrogen & Helium Leak Test*
- *Hydrostatic Testing Services*
- *Flange Management*
- *Bolt Tensioning*
- *Subsea Bolt Tensioning*
- *Hydraulic Torque Wrench*
- *Hot Bolting*
- *Pipe Cold Cutting & Beveling Machine*
- *Subsea Diamond Wire Cutter*
- *Hydraulic Flange Spreader & Nut Splitter*
- *In Line Isolation and Weld Test Plug*
- *Catalyst Handling (Loading & Unloading)*
- *Portable Air Compressor & Air Dryer (Include Oil Free Compressor)*
- *Manpower Supply*





INTRODUCTION

We are pleased to introduce our company to your organization. We are service company specialist for on-site problems. Our quality is the provision of products and services which meet customer needs and expectations in a higher degree of confidence in the product at accost that represents value.

- ***Mechanical Installation***
- ***PreCommissioning & Commissioning***
- ***Pipeline Pigging & N2 Purging***
- ***Pipeline Maintenance***
- ***Nitrogen & Helium Leak Test***
- ***Hydrostatic Testing Services***
- ***Flange Management***
- ***Bolt Tensioning***
- ***Subsea Bolt Tensioning***
- ***Hydraulic Torque Wrench***
- ***Hot Bolting***
- ***Pipe Cold Cutting & Beveling Machine***
- ***Subsea Diamond Wire Cutter***
- ***Hydraulic Flange Spreader & Nut Splitter***
- ***In Line Isolation and Weld Test Plug***
- ***Isotank Rent***
- ***Evaporator Rent***
- ***N2 Pump Vaporizers / Cryogenic Pump Rent***
- ***Catalyst Handling (Loading & Unloading)***
- ***Portable Air Compressor & Air Dryer (Include Oil Free Compressor)***
- ***Manpower Supply***

When your company needs the best, count on over 16 years hands-on experience solving the toughest applications. The fast, reliable, quality services of PT.Hydra Asia Energy. Prompt Services and Support Guaranteed!





ON SITE SERVICE

Mechanical Installation



Mechanical Erection is the process of preparing / making / building the place (where the new machine or plant would be installed) according to the product that would be mechanical Installation is setting it up in any location / side where it is to be used. Mechanical installation like a pipe rack, Piping spool, Vessel, Reactor, HE, Tank, Coloum, Tower, Mechanical joint and connection of pipe, etc.





ON SITE SERVICE

PreCommissioning , Pipeline Pigging and Hydrostatic Testing Services



PreCommissioning Work Including Cleaning, Gauging and Filling, Hydrotesting, Dewatering, Swabbing, Drying Purging, Nitrogen and Helium Leak Test (Onshore & Offshore)



ON SITE SERVICE

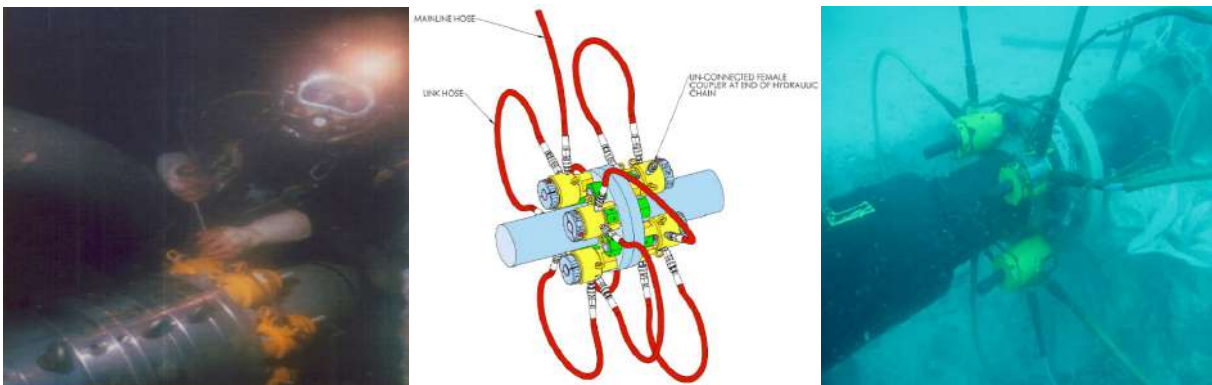
Bolt Tensioning

Top Side Bolt Tensioning



Hydraulic bolt tensioning is the most consistent of applying accurate pre-load to bolts. Bolt tensioning is an accurate and time saving method for tightening bolts and studs in all industries. Controlled bolt tensioning to calculated values to eliminate flange leakage. Versatile compact design ensure maximum economy over any given size range.

Subsea Bolt Tensioning



The bolt tensioners are designed for quick and accurate tensioning of pipe flanges etc. in a subsea environment. The tensioner has a minimum of parts to enable fast and simple attachment to studs where visibility is poor. Quick fastening reaction nut: allows rapid tool application and removal regardless of bolt length, corrosion or thread damage. Unique floating piston design: tilts in any direction without loss of load, eliminating piston seizure and aiding tool retraction. The Subsea tools are safe and easy to use.



ON SITE SERVICE

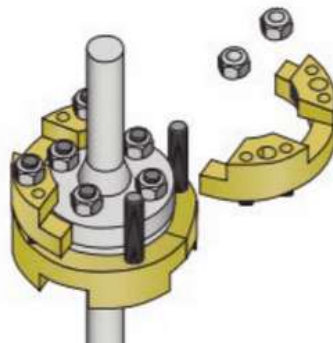
Hydraulic Torque Wrench



Comprehensive range of hydraulic torque wrench equipment for tightening and loosening bolts. PT.Hydra Asia Energy services have been experience and solution to any industrial bolting problem, Hydraulic torque wrench ideal for break-out and make-up of bolted joints, with output torque capacity up to 45,000 lbf.ft.



Hot Bolting



Hot bolting is a term used to describe the technique of re-tightening or replacing flange connection bolts when a pipe is live - (full of liquid or gas). Benefits of Hot Bolting (Single Stud Replacement) : Allows damaged or corroded bolts to be replaced, prevents unplanned shutdown, increases safety, helps towards improved joint integrity, reduces duration of shutdown, limits the number of 'containment breaks, increases efficiency, replaces 'old for new' bolts before shutdown, and reduces costs.



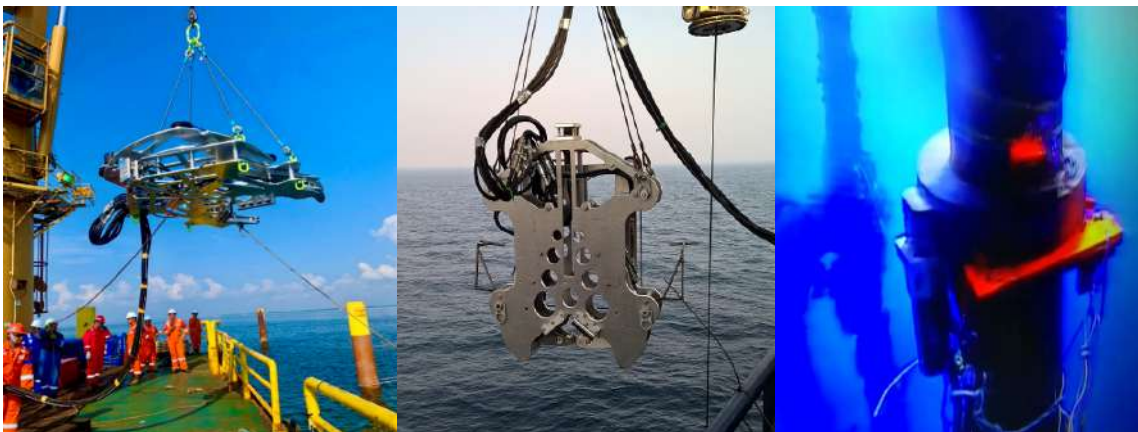
ON SITE SERVICE

Pipe Cutting (Cold Cutting and Beveling)



Portable pipe cutting machines designed for on-site precision severing, severing/beveling and severing/double beveling. PT.Hydra Asia Energy pipe cutting machine operated by our high experience technician.

Subsea Diamond Wire Cutter Subsea (Pipe Cutting and Beveling)



Subsea Diamond Wire Cutter is operated with a hydraulic motor and hydraulic control panel
The pipe cutting machines was two type motor driven, By pneumatic and hydraulic pump. For pneumatic pump usually used on top side and hydraulic pump used in under water (Subsea).



ON SITE SERVICE

Portable Air Compressor and Air Dryer (Oil Free Compressor)



Our company also provides rental services for portable oil-free and non-oil-free compressors, along with air dryers, to support your project needs at site, whether onshore or offshore.

Hydraulic Flange Spreader & Hydraulic Nut splitter



Flange Spreaders separate flanges safely and easily without hammering. The Spreader, which attaches to the flange holes, spreads the flange faces without damaging flange sealing surfaces. In industrial mechanical and hydraulic spreaders feature an integrated wedge concept: Friction-free, smooth and parallel wedge movement eliminates flange damage and spreading arm failure. For maintenance, commissioning, shutdowns, testing and valve change outs Unique interlocking wedge design - no first step bending and risk of slipping out of joint.

Nut Splitters are sized according to the nut Sizes they are designed to split. This size can be given as either the measurement across the nuts flats, in either metric or imperial measurements, or the bolt size.



ON SITE SERVICE

In Line Isolation and Weld Test Plug



Aluminum/Steel Construction - reduces weight

1.5:1 Safety Factor

Reduces NDE

Uses less than a gallon of water, reducing waste and treatment expense

Working Pressures to 2,250 PSI (155.2 Bar)

Monitor isolation zone and upstream pressure

Sizes 0.75" to 24" NPS, larger sizes available on request

In Line Isolation and Weld Test Plug revolutionizes isolation and testing of pipe connections. The Plug allows an operator to positively isolate and monitor potentially explosive vapors during "Hot Work", then effectively hydrotest the new weld connection with easy to use tool. The aluminum / steel construction makes the tool highly portable and easy to position. The volume of water required for a test is so small that testing can be accomplished using a hand pump. This Greatly facilitates testing in remote areas of the facility.



1.7" TO 84" INFLATABLE PLUG MEDIUM DUTY PIPE PLUGS WITH AND WITHOUT BY-PASS:

This Inflatable Plug is ideal for insertion through a small opening branch pipe and lower pressure rating and shorter length. This is often the lowest cost solution to plugging large low pressure pipelines. These Plugs may be customized for most pressure, chemical and temperature requirements. Made with ballistic nylon reinforced Nitrile. Standard Pressure range: 3-30 psig

WORLD LEADER IN CATALYST HANDLING



CATALYST HANDLING SPECIALIST

*Your one-stop-shop for SAFE and EFFICIENT reactor turnarounds.
We have made it our goal to create a name for ourselves that is
synonymous with Quality, Safety, Customer Care, and Innovation!*



Blinds to Blinds

Let HPA manage all the tasks and resources required during your turnaround. We can ensure safety, quality, efficiency, on time and within budget. Blind to Blind Includes:

- Blinding & Opening the Reactor/Vessel
- Unloading of the Catalyst
- Video Inspection & QA/QC Inspection
- Reactor/Vessel Repairs & Retrofits
- Loading of the Reactor/Vessel: Dense and/or Sock Loading
- De-Blinding including Torquing and Bolt Tensioning





Reactor/Vessel Unloading

Vacuuming and Dumping of Catalyst (Including Inert Entry)

With industry leading experience and expertise HPA has built its reputation by utilizing the safest methods for unloading vessels based on their design, type and location. We service a variety of reactor/vessel types utilizing a combination of methods depending on the reactor/vessels' specs.

HPA utilizes a variety of proven methods including wet dumping and dry vacuuming as well as fresh air and inert atmospheres. We are equipped to handle every method available on the market. Our wet dumping techniques, with consideration not only to the safety of personnel involved but also to the environment, is by far the quickest in the industry.

Catalyst Screening

The vibration screeners we use have low attrition and good cut points giving a clean reusable material that requires no additional handling afterwards. We can screen into any approved catalyst container from drums, 1-ton big bags and 2-m³ catalyst bins. Our screening units are easily adjusted to give the optimum-screening rate for the required cut point.



Reactor/Vessel Loading (including Inert Entry)

Sock Loading

With conventional sock loading techniques and experienced personnel, a uniform loaded bed can be achieved where the higher densities and startup ΔP of the superior method of dense loading is not practical. Good sock loading techniques can minimize problems that are normally associated with sock loading.

Dense Loading

Dense loading is by far the best loading method available in the industry, and with this particular method, the unit can handle the higher startup ΔP . The advantages of dense loading is well known and well documented.

- HYDROPAC® technology is a HPA designed, owned and operated dense loading system that incorporates all of the required features for a uniform load with none of the disadvantages associated with many of its competitors.
- UNIPAC®/UNIPAC® 2.0 (GeCCo-Loader®) loading technology is the most advanced method offering uniform and homogeneous catalyst loading of reformer tubes.





Change Out Catalyst at Ammonia Converter





PT.HYDRA ASIA ENERGY

*We offer a comprehensive range
of quality service, supported by strong,
experienced engineering teams*



Should have any questions or need assistance, please do not hesitate to contact us for further details Email:

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website : www.hydraasia.com



Other Equipment in Our Stock



Hydraulic Powerpack



Multistage Pump/Pigging Pump



Underwater Hydraulic Concrete Cutter



Underwater Hydraulic Grinder



Underwater Hydraulic Chipping Hammers



Underwater Air Lifting Bag



HYDRA ASIA

PT. HYDRA ASIA ENERGY

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