2024

COMPANY PROFILE

PT PRADITA PUNCAK SARANA

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1. PHILOSOPHY OF TURNAROUND

- To do some critical work scope : Statutory compliance, repair/ Replacement , Modification / Revamp, Inspection, Maintenance, etc
- Only on the off-line plant condition (facility shutdown)
- Only on defined certain period (limited period)
- Plant in good/higher reliability when back online

1.1 PROJECT VS TURNAROUND

PROJECT

1. Usually well-defined scope, from:
   a. drawings
   b. specifications
   c. contracts
   d. permits, memos, etc.
2. Scope is static. Few changes occur during execution.
3. Can be planned and scheduled well in advance of the project.
4. Projects are organized around cost codes / commodities.
5. Generally do not require safety permits to perform work.
6. Manpower staffing requirements usually do not change during project execution.
7. Project schedules can be updated either weekly or monthly.
8. Projects measure time in days, weeks and months.
9. Project scope is usually a 11 mandatory.
10. Project schedules are uncompressed. Schedule acceleration can be used to correctslippages in the critical path.

TURNAROUND

1. Usually loosely defined scope, from:
   a. past turnaround experience
   b. inspection reports
   c. operations requests
   d. historical estimates
2. Scope is dynamic. Many changes occur as inspections are made.
3. Planning and scheduling cannot be finalized until the scope is approved, generally near the shutdown date.
4. Turnarounds are work order based.
5. Turn around work require extensive permitting every shift.
6. Manpower staffing requirements change during execution due to scope fluctuations (from discovery work).
7. Turnaround schedules must be updated every shift, daily.
8. Turnarounds measure time in hours or shifts.
9. Turnaround scope is flexible. Usually a large percentage of work can be postponed to a later window of opportunity if necessary.
10. Turnaround schedules are compressed. There may be little or no opportunity to correct the critical path by accelerating the schedule.

1.2 TURNAROUND PHASES - BUSINESS PROCESS

Front End Loading

Develop TAR basis, including preliminary worklist, cost, schedule, and duration.	Finalize worklist, develop preliminary TAR execution plan, and update cost, schedule and duration	Complete detailed TAR execution plan	Achieve on-spec operations safely and consistent with TAR execution plan	Evaluate TAR performance and complete documentation.

Typical Time Duration

2-4 months	3-5 months	3-5 months	1 months	1-2 months

1.3 GOALS

- Safe execution
- Cost effective
- Quality/product as per committed scope
- Schedule targets
- No surprise
- Norework
- Business reputation




2. ON SITE MACHINING

PT Pradita Puncak Sarana provides the industry with fast, accurate cost-effective solutions to on-site maintenance. Our service capabilities range from the smallest plant maintenance service to large-scale turnkey packages. Our machine tools are designed and manufactured to international standards and help the capability to machine circular structures of up to 30 meters in diameter.

PT Pradita Puncak Sarana has trained our personnel to work with the latest CAD/CAM software.

Our personnel utilize their engineering and field experience to generate accurate, reliable, and cost-effective machining solutions.

We have the capability of machining flanges up to 36 inches outside diameter (OD) We are also experienced in machining gasket surfaces on nozzles, man ways, and hand holes, including heat exchanger machining like refacing sheet flange, channel head partition plates, tube sheet preparation and tube facing and weld seam excess removal. Any surface finish requirements can be met.

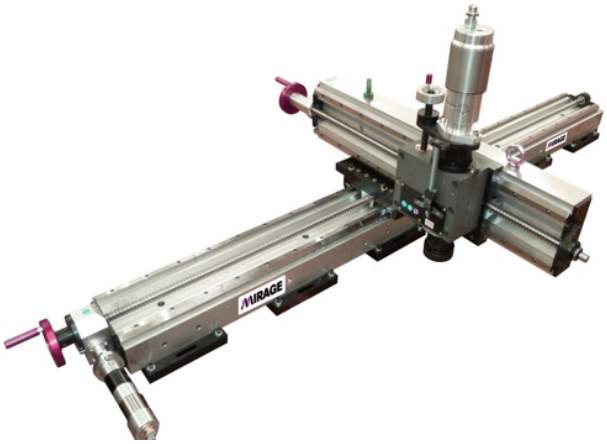
We can also perform Pipe Cutting and Beveling on diameters 2" - 36" of any wall thickness. Adjustable for cutting and varying bevel configurations using a wide range of purpose-built internally and externally mounted cutting equipment.

3.1 FLANGE FACING

Whenever you need to re-face gasket seat in-situ, you can rely on our Flange Facing Services. Whether it is a flange, heat exchanger cover joints, boiler manways, industrial pipelines or vessel joints, we can do all the jobs. Our Flange Facing machines are capable of facing, turning, grooving and weld preparation. They are lightweight, strong and flexible and the most important is pneumatically driven; therefore ideal for used in hazardous area.
In addition to standard jobs, we are also capable to machine hub profiles, the front and back faces of heat exchanger, oval manways, oval handholes and sealing surfaces of pressure vessels and boilers. Finished machine surface can be flat, recessed, spigotted, raised face or ring groove from fine to gramophone surface finish. Our Flange Facing Service is equipped with complete range of flange facing machines and operated by highly skill technician; therefore enables precision repairs on site and in-place, reduces downtime, helps accelerate turnarounds schedule, and in turn will minimize lost of production.

3.2 MILLING

Our milling machines are compact, lightweight, easy to handle, designed sturdy for on site milling application and able to perform a variety of milling operations on site, such as division plates of heat exchanger, bed plates for pumps, bed plates for motors, and even for milling keyways and slots. Since they are pneumatic driven, those milling applications can be done in hazardous area. The combination of our reliable and complete set of milling machines and our trained technicians are the guarantee that our job will meet your requirements. Therefore; whenever you require any milling application on site, you can rely on our on site milling service.



4.1 PIPE CUTTING

Using a wide range of purpose built externally mounted cutting equipment, we offer a fully comprehensive pipe cutting and beveling service to industry covering all the various aspects, involved in the parting and profiling of pipes, vessels, boiler headers, valves and tubes in the oil and gas, power generation, chemical, petrochemical and other process industries. Our pipe cutting service covers pipes of any diameter and wall thickness, as well as the excavation and removal of defective weld material for the fitting of valves and inserts. If required, the remaining pipe ends can be profiled and prepared for welding, a process which can be carried out simultaneously during the actual cutting operation or after removal of the vessel.
Our Pipe Cutting Machine has a robust design but is lightweight and it offers minimal clearance requirements. The combination of its design characteristics and available accessories makes it the most efficient, precision pipe cutting and weld preparation tool available. With pneumatically air driven, our machines can be utilized even in the most hazardous area.

4.2 GRINDING AND POLISHING

PT Pradita Puncak Sarana provides a quick and cost-effective methode for the in situ renewal of the surface finish of large diameter steel on rotating plants such as kilns and dryers

5. FLANGE MANAGEMENT

Bolting is a crucial element in achieving joint integrity thereby maximizing the operation efficiency of plant equipment. PT Pradita Puncak Sarana understands the industry's requirements and provides complete, high-quality bolting services from design to final tightening and measurements. Our experienced technicians offer bolting capabilities to tighten or loosen multiple or simultaneously tighten or loosen bolts. The proper and correct listing is vital in maintaining the optimum performance from repeatable bolt loads and pressure-containing joints, and in achieving this objective, we provide complete repair services including break out, machining gasket replacement, and reassembly.

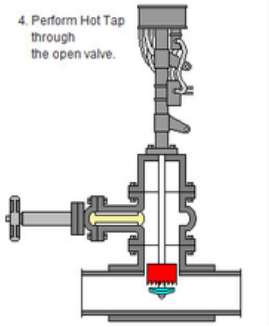
Bolt Tensioning using advanced hydraulic technology enables threaded fasteners to be tightened uniformly. This ensures the compressibility required to achieve joint integrity resulting in no leakage. These tools utilize high-pressure hydraulics to stretch the bolt axially by the exact amount required. Once the required stretch or load is achieved. The nut is run down the load, the pressure is released and the tool is removed.

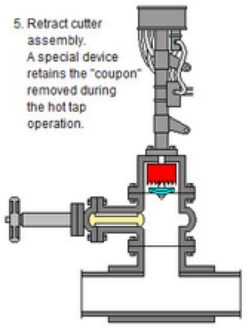
Torque Wrench Equipment with the late pneumatically energized hydraulic torque wrenches. We offer torque tensioning for tightening and loosening bolts, studs, and fasteners. The products used are manufactured to produce a torque of 885 lbf. ft (l,200Nm) as high as 36,875 lbf.ft (50,000Nm) and are designed for use with bolts ranging from 1/2 inch (12mm) Diameter and large. Hot Bolting line torquing of components to prevent leakage "Proper and correct bolting is vital in maintaining the optimum performance"

6. HOT TAPPING

PT Pradita Puncak Sarana offers the delivery of safe, effective hot taps and line stops using the latest technologies. Fittings and services are available for all types of pipe materials, diameters, pressures, and temperatures. Hot taps, line stops, Hotstops, HiStops, Super HiStops, bag stops, freeze stops, double stops, tee stops, elbow stops, and thru-valve stops, Our principals deliver engineering solutions for your hot tap and line stops needs.

- Safe, reliable pipeline sentry and isolation
- No shutdowns or service interruption
- Eliminates emissions and loss of product
- Cost-effective for a variety of applications
- Engine ring design and support
- Training and certification program for hot tap technicians





provides engineering, manufacturing, repair and many other related service allowing you single provider for all hot tap and line stop needs.

- Valve instalation, replacement, repairs
- Pipe or fitting replacement, repairs
- Pipeline tie-ins
- Re-routing process piping
- Repairing pressure letdows station
- Isolating pressure vessels
- Decommisioning piping
- New construction tie-ins
- Pressure and vacuum installations
- Quality control sample points
- thermo well installation
- Flow meter installations

How tap provides reliable, safe and controlled entry into piping or vessels, operating at pressure or vacuum without loosing product or interrupting system operations

7. WELDING HABITAT SYSTEM

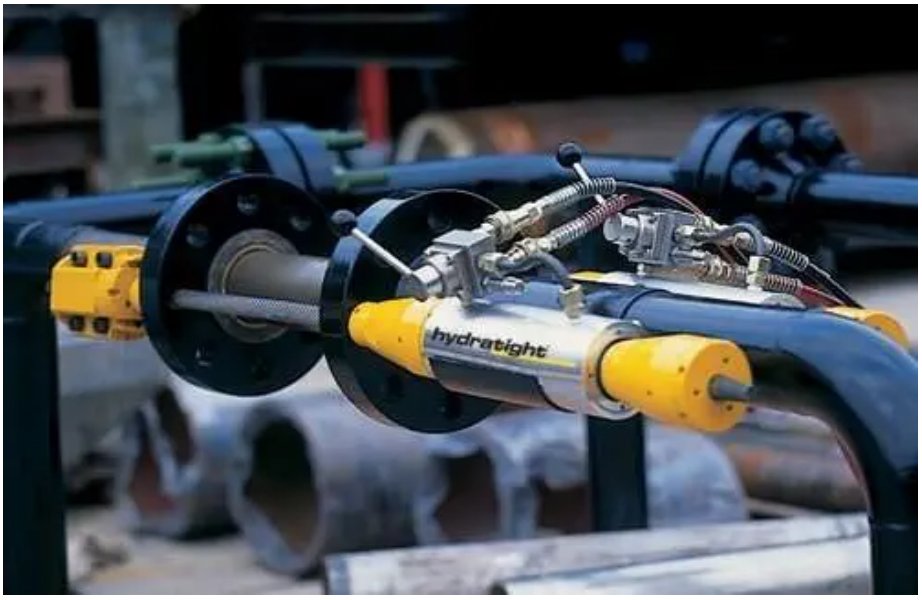
The WICH System is a patented, versatile, customisable system that is designed to facilitate hot work such as welding in hazardous areas offshore or onshore.
The system isolates ignition sources that are generated from hot work operations taking place inside the Hot work Safety Enclosure (HSE) from any potentially flammable gases that may exist outside theHSE.
Essentially, the overpressure in a WICH System is used to prevent penetration of potentially explosive substances and gases, allowing hot work to be carried out in areas otherwise considered hazardous, thus avoiding expensive and unnecessary shutdown of the plant.

The WICH System is designed based on flexibility in mind, which helps facilitate hot work better. It comes in versatile designs, various sizes, is able to fit in any space and each part is easily transported. The use of scaffolding and pliable covering alsoallowthe system to be builtaroundpillarsand other obstacles

8. HYDROTESTING & PNEUMATIC TEST

Leak testing may be performed on any process pipework or system to prove the integrity of all flanged joints, welding joints, fittings & valves before the introduction of live systems contents. Process systems are typically tested during the initial commissioning stage, and then subsequently after each further intervention to prove that any disturbed joint has been correctly reinstated.
The advantage of hydrotesting of any process facility is that it will reduce loss of production through unplanned shutdown to repair leaking joints. The safety of any facility that has been leak tested is enhanced through the elimination of potential escape of flammable, toxic, or asphyxiating system contents. Environmental performance is improved through the elimination of hydrocarbon and hazardous product releases into the atmosphere. Our personnel are multiskilled. We can combine our bolting/flange management service with hydro test to create a significant reduction in headcount, schedule, and costs. AWI offers hydro testing pressure up to 20,000 psi, with flow rates up to 4 gallons per minute. Pneumatic or electrically driven hydro testing is available. All units are supplied with certified slings and are approved for offshore use

9. BUNDLE/ FLANGE PULLER



Flange puller services are used to exctract flanges or heat exchanger tube bundles prior to commencing with cleaning operations or replacing the tubes with the new ones. We undertand that bundle pulling is a delicate process which requires precision and AWI are equipped with best equipment and highly trained personnel to perform the service at the highest standard.

10. CHEMICAL CLEANING

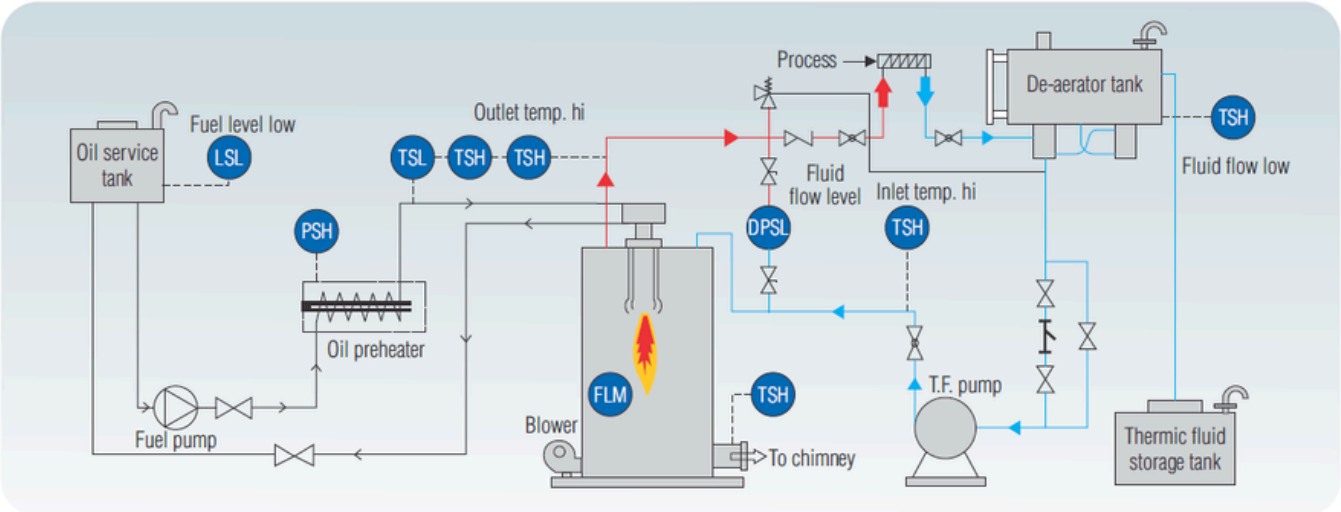
Typical process equipment and piping get both organic and inorganic substances deposited on them, coming from the fluid being processed such as water, crude oils, petroleum products, lubricating oils, chemicals etc. etc. These deposits or sometime called fouling need to be removed time to time to prevent damage and maintain efficiency of operation. Chemical cleaning is the use of chemicals to dissolve or loosen deposits from process equipment and piping. Chemical cleaning is a process which primarily uses chemical solutions to remove fouling from inside plant and equipment.
The chemical cleaning is performed in many industries in the commissioning of new plant facilities and during operational turnarounds of existing plants. The use and purpose of chemical cleaning varies in commissioning vs. operational scenarios.
The purpose of this cleaning is to remove manufacturing and construction contaminants that would be detrimental to that equipment's operation. The cleaning may be undertaken for degreasing of preservatives and organics and the removal of mill scale and rust from the systems.

Operating plants and equipment are chemically cleaned for several reasons:

1. Removing deposits that cause reduced productivity of the equipment
2. Removing deposits that cause overheating and corrosion of the operating equipment
3. Removing vapors and deposits that cause environmental and safety issues when opening equipment for inspection and maintenance.

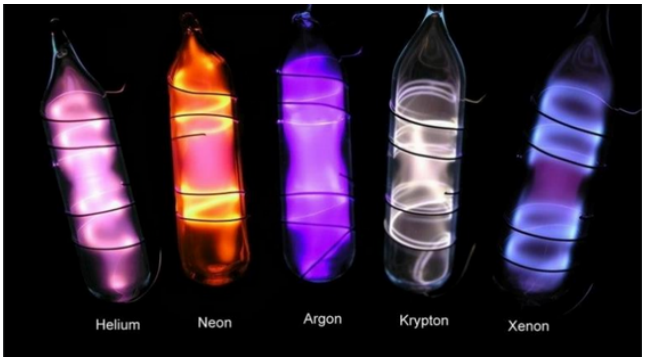
11. HOT OIL FLUSHING

Flushing is a process which is done to clear any contaminants present in the pipe and oil after installation. The sole purpose of this process is to avoid damage caused by contaminants/dirt's to the end using equipment. The pipes are cleaned by creating a turbulent flow in the system and passing them through filters until the desired cleanliness value is obtained.



12. NITROGEN AND HELIUM SERVICES

Uncontrolled emissions, loss of containment, release of hazardous petrochemicals are a direct danger to Health, Safety and Environment. Experience proves that leaks do occur, mostly during plant start-up, after commissioning of new facilities or after the execution of maintenance on existing facilities.



PT Pradita Puncak Sarana Helium Leak Testing Services

- Improves safety by preventing escape of flammable toxic product
- Eliminates leaks and emissions
- Simulates operational conditions
- Reduces the water content of the processing facilities
- Reduces Oxygen levels and provides an inert blanket Typical the systems are pressurized, with a mixture of 1% Helium and 99% Of Nitrogen. Pressurization takes place in several steps up to normal operating pressure or up to 95% of the reliefvalve setting.

13. RETROJETTING

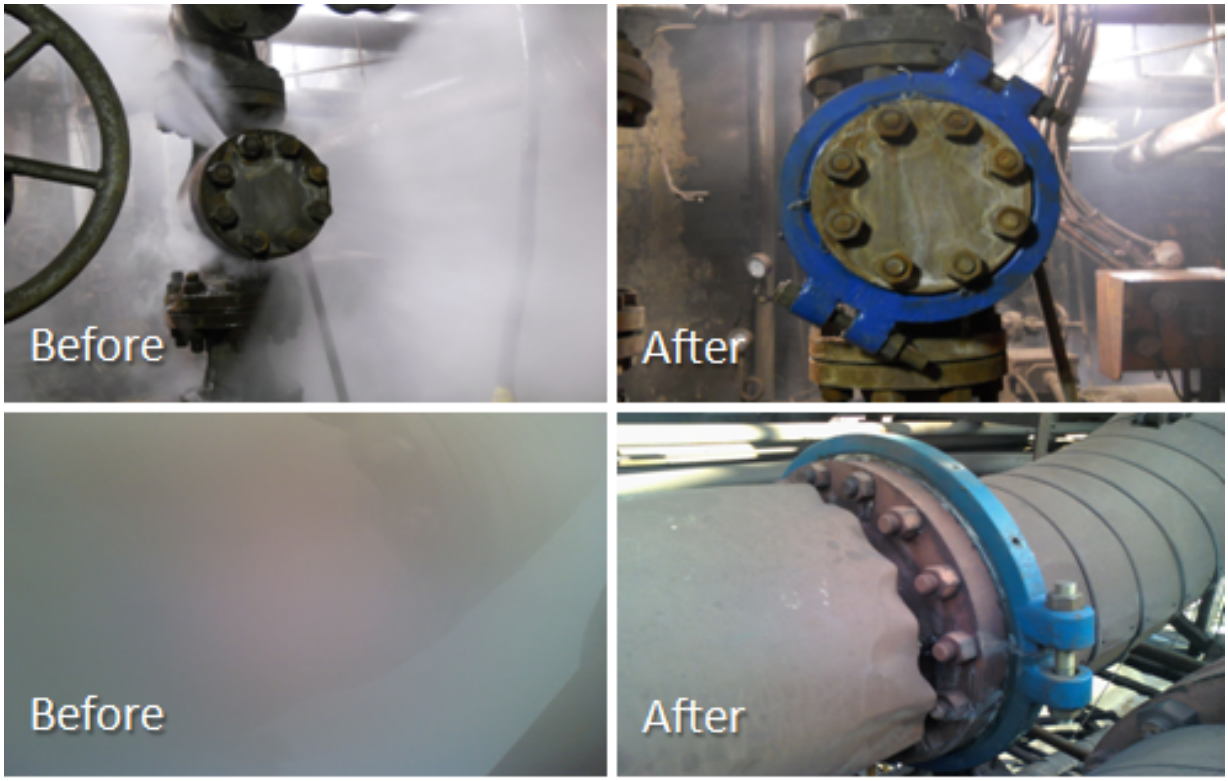
We have a large number Of highly trained personnel who are specialized in delivering complex water jetting services to the onshore industrial market. PT Pradita Puncak Sarana owns and operates an extensive fleet of High-Pressure Retro Jetting equipment, operating to pressures of 30,000 psi, in addition to onshore trailer mounted and containerized options, which are certified to operate in hazardous areas.

With a strong commitment to providing clients with the latest in best-fit technologies, combined with our highly trained operatives and specialist equipment, we ensure that our teams have the knowledge, experience, and technological resources to safely and efficiently complete cleaning or descaling operations for clients requirements in a diverse range of industrial contexts.

FEATURES & BENEFITS:

- Reduces downtime
- Hazardous zone certified equipment
- Allows efficient working
- Fully managed and self-sufficient service
- Proven track record
- Dedicated logistical department for the certification/re-certification and mobilization/demobilization of equipment
- Waste Carriers License Qualified ADR drivers (tankers, flatbeds, lorries, tail lift pick-ups, transits) for the transportation of hazardous waste

14. LEAK SEALING & REPAIR



PT Pradita Puncak Sarana provides non-destructive, online, stream leak repair services for process, team, water, and air leaks. These repair services are made at temperatures ranging from cryogenic to 700 deg C, and pressures from vacuum to 200 bars. From low-cost banding or open wire from marrow gap flanges and bonnets to solutions based on ring clamps or box enclosures, we provide alternatives.

We have served many sectors of the industries which include marine and offshore, power generators, refineries and petrochemical plants, pulp and paper plants, iron and steel mills, and others. At AWI we help industrial plants to stay online thereby helping up time by sealing leaks under pressure.

We offer repair rather than replacement which avoids unnecessary manufacturing and replacements or the goal of extending the life of your plant component thereby maintaining the integrity of your process system and protecting the environment.

The most frequent types of leaks repaired are:

- Flange Leaks
- Pipe and Fitting Leaks
- HE Joints Weld and Thread Leaks
- Expansion Joint Leaks
- Valve Leaks
- Gland Packing Leaks
- Pressure Seal Valve Bonnet Leaks
- Pressure Vessel Leaks
- Any virtual Leaks Problems

15. HOT BOLTING

Hot Bolting is the sequential removal and replacement of bolts on flanged joints while under reduced operating pressure. It is carried out one bolt at a time in a predetermined cross-pattern sequence. Each replaced bolt is fully tensioned before the next one is removed. These services are performed without any damage, leakages, or interruptions in daily production. It is a modular segmented clamp, which when correctly assembled on a bolted flange while in service, permits the safe removal of one or more of the parent flange bolts without risk to the integrity of the parent flange.

The design basis of the HydratightMorSafe clamp

- The design is simple and safe to install and capable of being 'abandoned' if any unforeseen events occur while being fitted.
- The clamp will have minimal effect on the installed parent gasket.
- The clamp is preloaded to negate any change of load effects due to the use of mechanical tools to remove studs and/or sudden load release by a failed bolt. It is impossible to accurately predict the force required to remove a rusty corroded bolt.
- The clamp is capable of being fitted and installed on the flange for long periods without risk to the integrity of the flange or system.
- Clamps are designed to permit safe access of a specified tool to remove the corroded bolt. Generally, due to bolt spacing, it is only possible to include window access for flanges with 4 bolts. On flanges with 8 bolts or more, using nut-splitters is not possible for nut/bolt removal.

OUR CLIENTS

PT FREEPORT INDONESIA

antam

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PERTAMINA PATRA NIAGA

PERTAMINA GEOTHERMAL ENERGY

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