



ALDRICH OFFSHORE

BY NIAAM

Forged By Experience, Anchored By Safety,
Inspired By Innovation, Created For Performance.

Corporate **Profile**

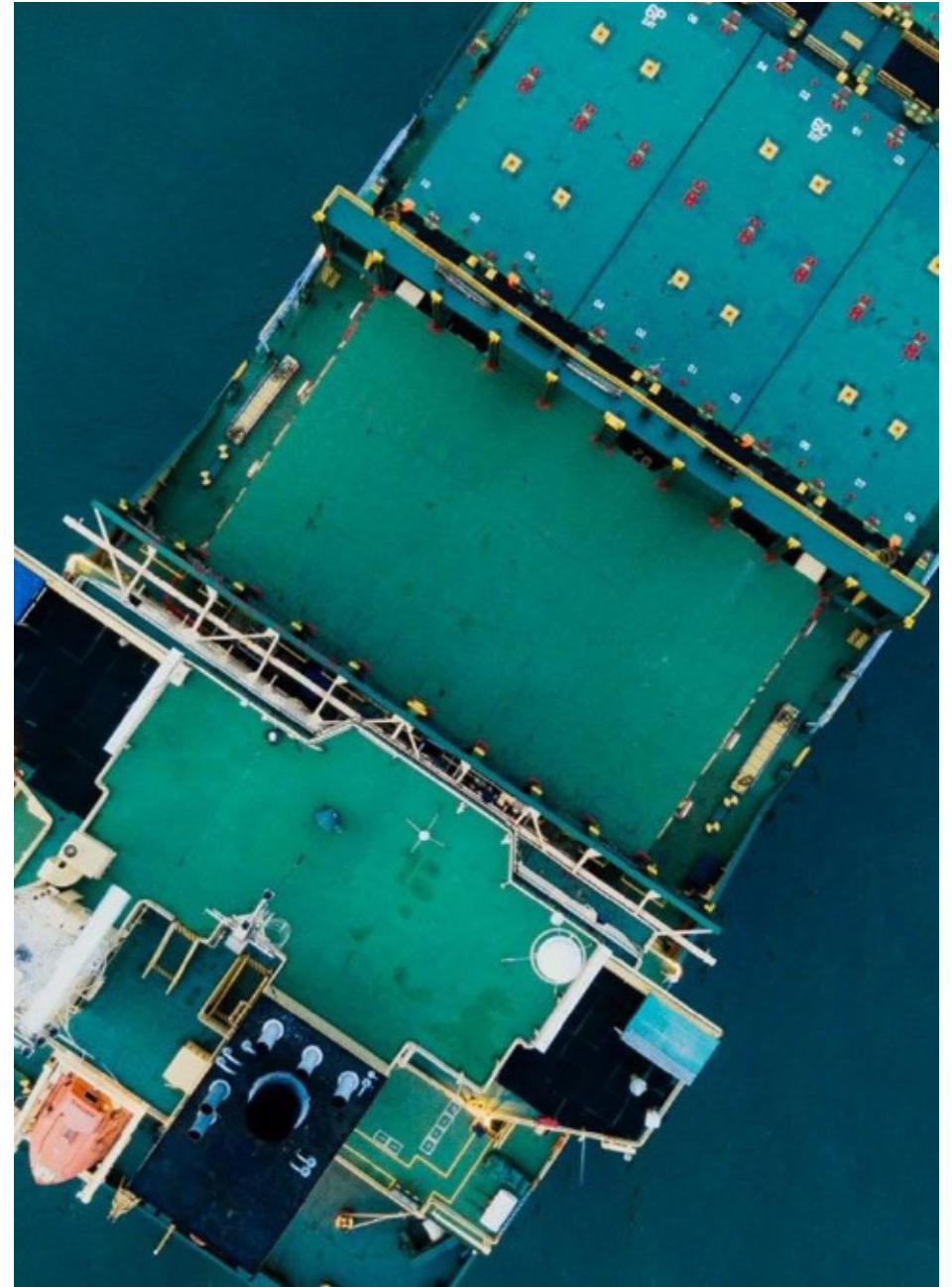
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A Part Of Niaam Holdings



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Who We Are.

We are a pioneering Offshore Engineering & Maintenance company that is continually pushing the boundaries on engineering and Services. Our driving force is a profound belief in doing things right, not only for our industry but also for our Oceans & Environment.

Founded in 2014 by Niaam Holdings in the United Arab Emirates, our company has expanded its footprint across the Middle East, establishing physical offices to provide a comprehensive range of specialized offshore services. PT. Aldrich Offshore & Engineering has actively contributed to various projects abroad, supporting them with dedication and excellence.

Our expertise encompasses all facets of Maintenance and Engineering projects, extending from initial stages to turnkey project management. Throughout the process, we ensure seamless communication with the end customer by delivering Quality.

Operating globally, we offer project management services for industrial manufacturing, marine repair, Module fabrications & Pre-Commissioning. This includes a diverse range of vessels, such as oceanic, river, and ferry vessels and oil & gas. PT. Aldrich Offshore has successfully assisted numerous international projects, showcasing our commitment to excellence. We remain dedicated to supporting every aspect of projects and providing top-notch turnkey project management services.



Our Vision.

PT. Aldrich Offshore aims to establish itself as the globally trusted leader by offering tailored services to fulfil both technical and quality requirements of our clients and partners with high standards and safety as our top priority.

Our Mission.

We strive to deliver the highest quality service to our clients while adhering to various international maritime and offshore regulations. Our services are customized to meet the specific needs of each client, understanding both their commercial and technical requirements. Our goal is to consistently exceed their expectations in every project entrusted to us.

Our Spirit.

We emphasize mutual loyalty and responsibility between management and staff. We acknowledge that individuals' lives extend beyond their jobs, and we believe that working efficiently and having safety and fun are not mutually exclusive.

Our Certifications

Service Quality (ISO 9001:2015)

Aldrich Offshore has been awarded for ISO 9001:2015 for Chemical cleaning services in offshore Marine industry including Hot Oil Flushing, Water Flushing, Hydro Jetting, Pipeline, Video Camera Inspection and Commissioning and Testing Activities.



Service Quality (OHSAS 18001:2007)

Quality of service is a top priority as evidenced by our OHSAS 18001:2007 certification. Aldrich Offshore delivers the highest quality service through all phases of the chemical cleaning process. To achieve a successful chemical cleaning, the method of applying the chemistry is as important as the chemistry itself.



Service Quality (ISO 14001:2004)

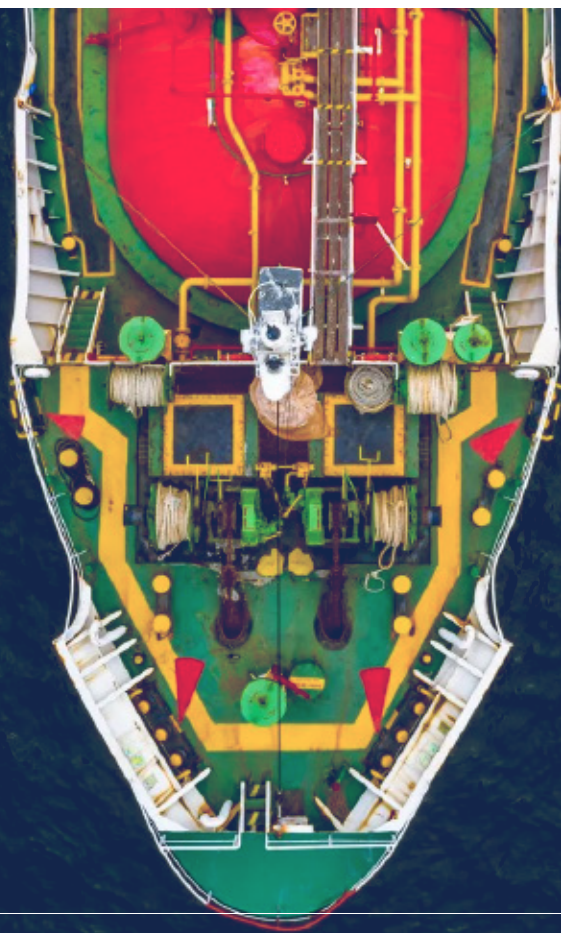
Aldrich Offshore has been awarded for ISO 14001:2004 for Chemical cleaning services in offshore Marine industry including Hot Oil Flushing, Water Flushing, Hydro Jetting, Pipeline, Video Camera Inspection and Commissioning and Testing Activities.

Industries We Serve

Our proficiency and extensive experience enable us to offer comprehensive services for all marine transport requirements.

Offshore Oil & Gas

Leveraging our versatile fleet of vessel maintenance, state-of-the-art subsea technology, and technical expertise, we possess an unparalleled capability to serve the oil and gas market.



Marine

Whether provided as a singular solution or as part of an end-to-end integrated project, we collaborate closely with our clients to deliver innovative, purpose-fit solutions for addressing the most challenging marine issues.



Our Specialized Services

We provide an extensive range of services covering pre-commissioning, construction, and maintenance for the offshore, marine, oil, and gas industries.

COMMISSIONING & PRE-COMMISSIONING

The term "pre-commissioning" involves thorough investigations and planning conducted before the commissioning phase, providing substantial advantages to both constructors and facility operators. In a broad sense, pre-commissioning includes activities and procedures carried out on pipelines, process modules, subsea structures, flexibles, or umbilicals. These activities are designed to ensure that the components are free from leaks and are in an optimal state of cleanliness and readiness. This process is crucial for commissioning the system and ensuring its long-term operational effectiveness.

In collaboration with our international joint ventures and partners, PT Aldrich Offshore offers a comprehensive range of industrial cleaning services, addressing your structural, material, and functional needs. This includes a comprehensive program for pre-commissioning and turnkey industrial cleaning, utilizing the latest and most advanced cleaning techniques and equipment.

Pre-commissioning activities:

- Flooding / Filling
- Cleaning
- High Velocity Flushing
- Gauging
- Hydro testing / Pressure Testing
- Intelligent Pigging
- Controlled Bolting
- Tie-in Leak testing & Leak Detection
- Dewatering
- Nitrogen Purging & Packing
- Drying
- Conditioning
- Nitrogen / Helium Leak Testing



HOT OIL FLUSHING

Hot-Oil Flushing is a proven cleaning method that provides hydraulic and/or lubrication oil systems with a clean start, effectively removing assembly debris. In this process, hot oil circulates through pipe systems at high turbulent velocity, entraining loose or dislodged soil which is subsequently filtered.

CLEANLINESS STANDARDS: NAS/ISO



Application:

- Tubing
- Pipes
- Pipe systems
- Umbilicals
- Heat Exchangers

Benefits:

- Trouble-free start-up of systems
- Clean systems extend bearing lifespan
- Enables continuous operation

Deliverables:

- Clean and reliable piping systems
- Experienced personnel and fit-for-purpose equipment
- Particle and water content analyses using microscopy and/or computer
- Documented process

PRESSURE TESTING

Pressure Testing is a crucial pre-startup procedure conducted to validate the integrity of vessels and secure relevant certifications. During this process, pressure and temperature are meticulously logged using data, Fuji, or mechanical loggers.

Services:

- Hydrostatic Pressure Testing
- N2 Pressure Testing
- Hydraulic/Chemical Pressure Testing
- Flooding, Cleaning, and Gauging
- Dewatering and Drying
- Rental of Flange and Joint Testers

Application:

- Pipes
- Pipe systems
- Vessels
- Umbilicals
- Flow lines

Benefits:

- Identification and rectification of leakages
- Integrated Bolt Tensioning of Flanges
- Extensive array of equipment
- Capability to perform all types of pressure testing

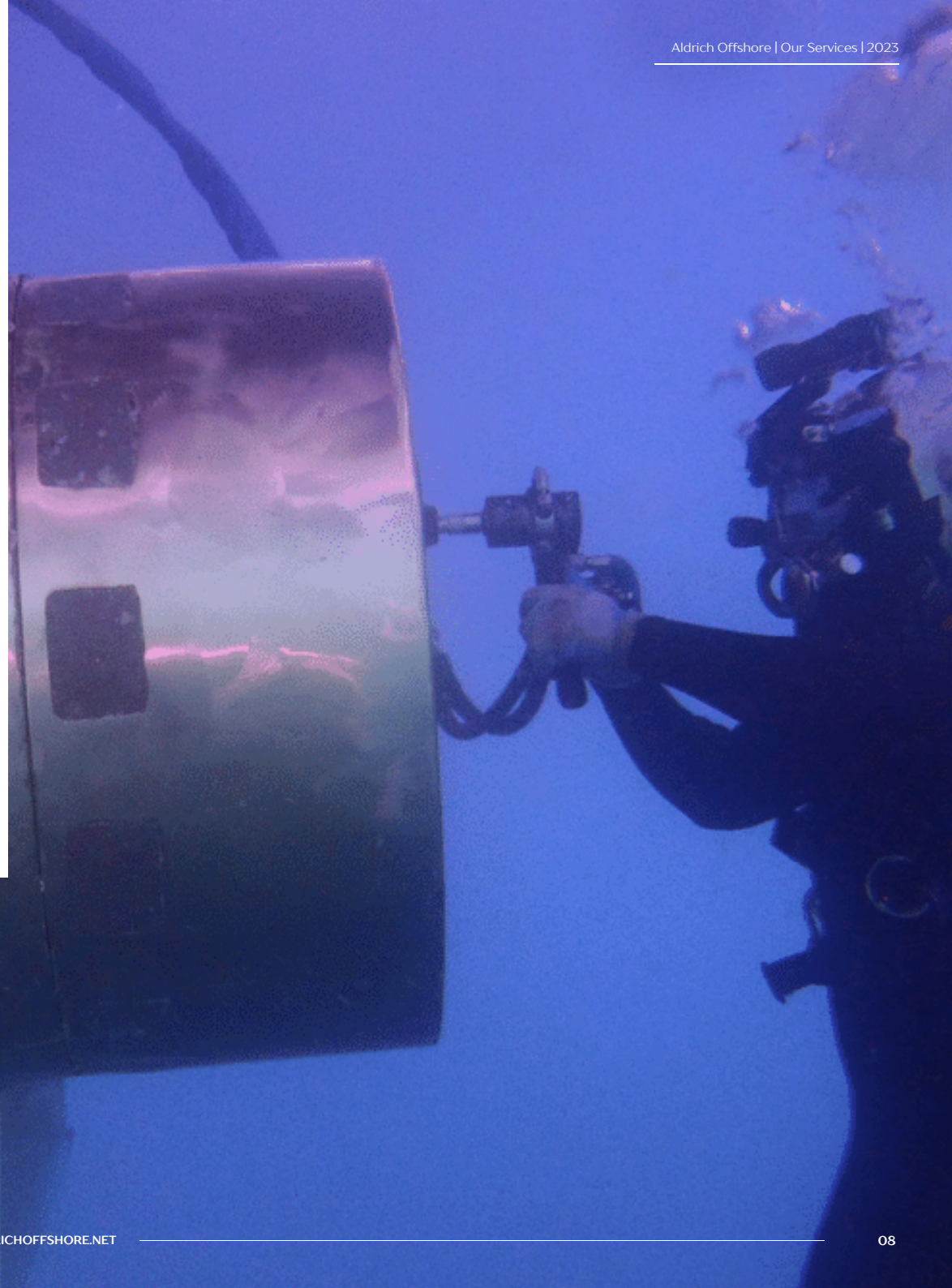


Clean ships, Clean seas.

We offer specialized and environmentally friendly services for underwater hull cleaning, propeller polishing, and inspection to ship owners and charterers through our expanding network of prominent IRM partners in major ports.

By maintaining the design and construction of highly customized cleaning equipment and systems entirely in-house, we guarantee the delivery of excellent underwater ship maintenance services.

With our experience and expertise, Aldrich Offshore is consistently committed to advancing the global shipping industry—precision calibrated from the bottom up.



CHEMICAL CLEANING

Pre-Operational Chemical Cleaning

Pre-operational chemical cleaning is carried out to eliminate any residual foreign materials arising from construction activities, found on either the pipes or system fabrication. Key considerations during the pre-operational phase include mill scale, corrosion products, weld scale, oil, grease, sand, dirt, temporary protective coatings, and other debris from the construction process.



Selecting an appropriate chemical cleaning method involves evaluating several factors, including:

- System design
- Operational conditions of the fluid (flow, temperature, pressure, etc.)
- Characteristics and quantity of deposits
- Compatibility of the cleaning solvent with system metallurgy
- Deposit solubility in the cleaning fluid
- Cost
- Health, Safety, and Environmental (HSE) considerations

Post-Operational Cleaning

Post-operational cleaning serves multiple purposes, addressing issues such as diminished heat transfer, reduced flow, safety concerns (e.g., H₂S, pyrophoric iron, LELs, ammonia), limited surface area access for comprehensive inspection, and more. The selection and frequency of post-operational cleaning depend on system design, operational requirements, and the operational and treatment history of fluids/water.



Advantages of Chemical Cleaning:
Chemical cleaning offers several advantages, including:

- Uniform and improved cleaning
- Minimal dismantling required
- Reduced downtime
- Effective cleaning of inaccessible areas
- Economical approach to cleaning

HIGH PRESSURE CLEANING

High-Pressure Cleaning is an essential part of commissioning, maintenance, modification, or decommissioning processes for pipes and vessels. Our services offer a versatile system with nozzles navigating through elbows and vertical pipes, supported by guiding systems for precision. We also provide Water Jet Cutting services, and our deliverables include a variety of nozzles and centralizers for pipe sizes from ½" to 36", ensuring comprehensive cleaning and removal of preservation, scale, rust, sand, and wax to maintain optimal pipe and vessel conditions.

Applications:

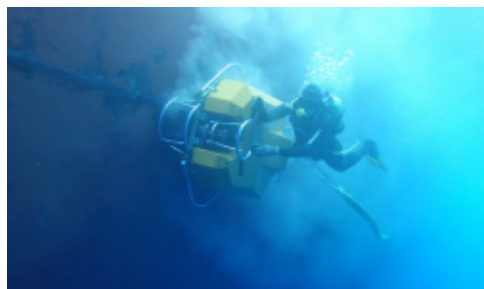
- Pipes
- Pipe Systems
- Conductors
- Caissons
- Vessels
- Special applications
- External cleaning

Services:

- Hydro jetting
- Retro jetting
- Roto Fan
- Water blasting



OTHER SHIP CLEANING SERVICES



Underwater Hull Cleaning

Our presently diver-operated cleaning technology allows us to provide a complete range of underwater hull cleaning services, covering the hull's vertical sides, flat bottom, curved surfaces, and niche areas for vessels of any type and size.



Propeller Cleaning & Polishing

Our specially designed propeller polisher produces optimal cleaning results and is linked to our surface debris collection and filtration system, guaranteeing efficient prevention of debris from entering the sea.



Cargo Tank & Hold Cleaning

We provide both on-board and remote supervision, supported by a complete range of cleaning chemicals to ensure that no cargo poses too significant a challenge.



Marine Air Duct Cleaning

Cleaning the air ducts on ships is crucial to prevent health problems. The ducted HVAC and exhaust ventilation system onboard ships provide an ideal breeding ground for dust, bacteria, mold, and pollen.

NITROGEN PURGING

Nitrogen purging is an industry-standard technique used to replace hazardous or undesirable atmospheres with inert and dry atmospheres. During the commissioning of a process plant, the practice of replacing air through purging with nitrogen is commonly referred to as oxygen freeing or start-up purging. In the case of a turnaround, where there is a need to replace a hydrocarbon atmosphere with nitrogen, it is commonly known as degassing or shutdown purging.

Services:

- Efficient oxygen freeing during commissioning
- Safe degassing or shutdown purging during turnarounds

Benefits:

- Reduction of turnaround schedules
- Enhancement of operating efficiencies
- Implementation of the highest standards of site safety

Gas-charged accumulators are common in modern hydraulic systems, serving various functions such as energy storage and reserve, compensation for leakage and thermal effects, shock absorption, and energy recovery.

Additional Benefits:

- Lowest installed system costs
- Reduced leakage and maintenance costs
- Improved system performance
- Decreased noise levels
- Lowered energy costs



BOLTING

In the case of all bolted flanges, precise control of torquing and tensioning is crucial to guarantee optimal performance. Bolting stands out as a safe, fast, accurate, and reliable method for ensuring joint integrity. Our Bolt Torquing team specializes in the controlled loosening and tightening of bolts, employing torquing and tensioning techniques for both small tasks and extensive turnarounds. Our trained and experienced torquing technicians apply proven techniques to disassemble, assemble, and verify preload for bolted joints.

Services:

- Hydraulic Torquing
- Hydraulic Tensioning
- Pneumatic Torquing
- Manual Torquing
- Flange Alignment
- Flange Spreaders
- Nut Splitters
- Flange/Mechanical work

Applications:

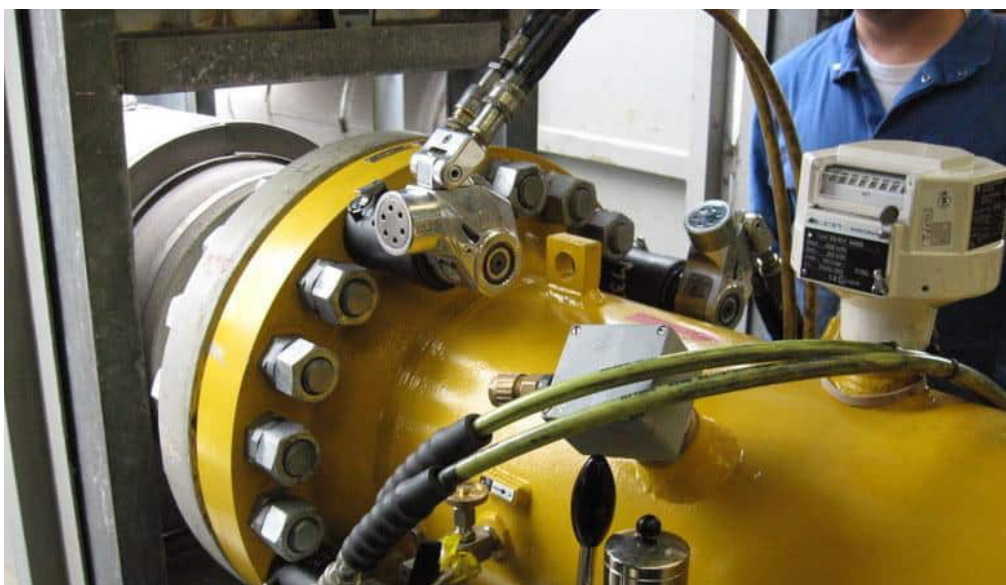
- Torquing and Tensioning for all types of bolts
- Hot Bolting
- Bolt change-out

Deliverables:

- Leak-free joints
- Personnel with proper training and equipment suited for the task
- Well-documented process

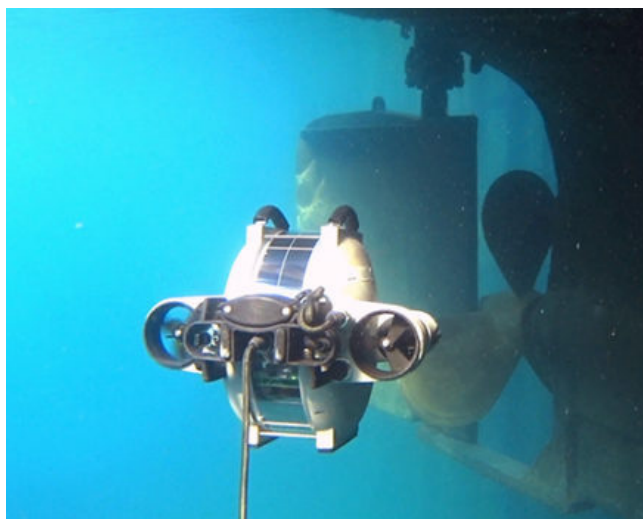
Benefits:

- Ability to conduct on-site machining, testing, and similar tasks.
- Competent and well-trained operators with diverse skills.
- Employment of high-quality equipment.



VIDEO INSPECTION

Video pipeline inspection technologies provide a cost-effective internal inspection method, eliminating the necessity for manned entry or dewatering the pipeline. These robust inspection systems are versatile, making them suitable for various pipeline environments and diameters. In addition to our cleaning activities, we also provide various underwater inspection services, including general hull condition and propeller blade inspections. These inspections are carried out either by our professional and well-trained dive teams or innovative ROV inspection drones. From calibration to assembly, every step of the inspection process is conducted by our in-house team to meet our stringent standards.



Services:

- Light and portable system for effortless deployment
- Modularity enabling a single system to inspect pipes ranging from 2" to 36"
- Small profile facilitating long runs and pan & tilt functionality in pipes with 6" to 36" inner diameters
- Quick disconnect for user-friendly operation, low maintenance, and time savings
- Hand-held pendant for easy control of lighting, focus, speed, and steering
- Rack-mount control unit integrable into existing vehicles
- Waterproof design for use in humid, damp, and underwater environments
- Lightweight crawler for easy insertion and removal

Benefits:

- High-quality imaging capturing every detail
- Record hundreds of feet of lines in a single inspection
- Rapid inspection process requiring minimal time

CALIBRATION & TESTING

We specialize in providing top-tier measurement services for pressure instruments and a comprehensive range of mechanical instruments. Our calibration and testing services ensure the accuracy and reliability of your instruments, guaranteeing precise measurements and adherence to the highest standards in the industry.

Pressure Instruments:

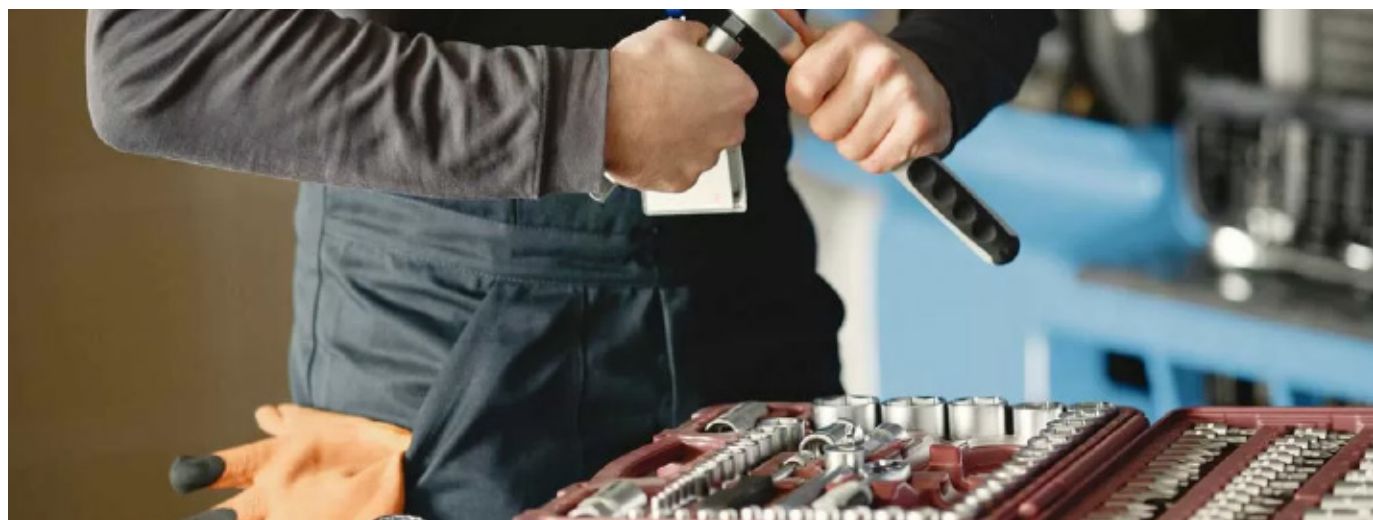
- Pressure gauge
- Vacuum gauge
- Test gauge
- Chart recorders
- Pressure transmitter
- Gas analyzer
- Safety valves

Mechanical Instruments:

- Torque Wrench
- Mass Measurement
- Weighing Balances

Dimensional Instruments:

- Micrometer
- Caliper
- Dial Gauges
- Height gauges
- Depth Gauges



STRUCTURAL ENGINEERING & FABRICATION WORKS

Our extensive services encompass the field of fabrication and steelworks, with a particular emphasis on providing complete servicing for heat exchangers. A heat exchanger is a crucial piece of equipment designed for efficient heat transfer from one medium to another. The media involved may be separated by a solid wall to prevent mixing, or they may be in direct contact. We uphold the highest standards in fabrication and steelworks to optimize the performance and longevity of your heat exchange systems.



Spare Parts & Rentals.

We hold the authorized distributorship for a range of products, including torque wrenches, hydraulic bolt tensioners, hydraulic wrenches, hydro testing pumps, torque tool testers, multipliers, and many other items.

Aldrich Offshore are the authorized distributor for major marine products with our extensive partnerships with various global suppliers and by incorporating state-of-the-art technology and a track record of proven reliability. Few of our largest suppliers include:



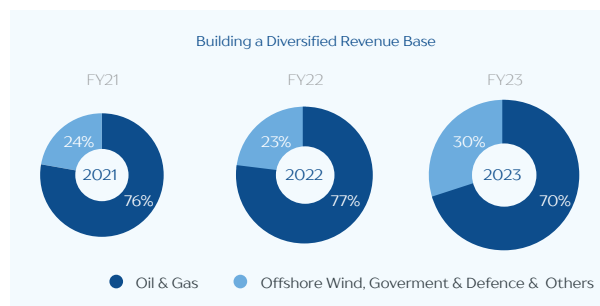
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Sustainability

Sustainability continues to be at the core of Aldrich's purpose and is integral to our overall strategy to grow the business sustainably into the future.



Our core belief in "developing marine and offshore resources sustainably" guides our strategic direction as we adapt our business to align with the global energy transition. While our traditional markets in oil and gas will remain vital revenue sources for some time, we are committed to diversifying our income streams into sectors that contribute to the energy transition. This includes offshore wind, as well as other related marine markets such as government and defence, and environmental services.

PT.Aldrich Offshore is well-positioned to support the decommissioning of oil and gas infrastructure and has expertise in repurposing decommissioned structures into artificial reefs, significantly enhancing the ecological outcomes of these projects.

PT. Aldrich's primary ESG initiatives align with various United Nations Sustainable Development Goals, addressing the key challenges currently faced on a global scale.

PT. Aldrich's ESG strategy remains centered on the following crucial components:

Environment – Assessing Aldrich's role as a custodian of nature.

Social – Managing Aldrich's relationships with employees, suppliers, customers and the community.

Governance – Evaluating the governance structure and practices at Aldrich.

ESG Strategy

Environment



Environmental Management Systems
Compliance with environmental regulations and conventions, waste management, and pollution prevention



Emissions Reduction
Developing strategies and initiatives to reduce emissions across our operations



Supporting the Energy Transition
Diversifying our services to support the development of offshore wind



Supporting Healthy Oceans
Engineered reefs, coastal erosion prevention, marine habitat enhancement

Social



Employee Health and Safety
Target 365 culture, Critical Controls, Safety Management System



Employee Wellbeing
Employee engagement, EAP, mental health, flexible working, parental support



Training and Development
Employee support and training



Diversity and Inclusion
Awareness and inclusion events, measurable objectives



Community Support
Community sponsorship, philanthropy and volunteering



Indigenous Engagement
Indigenous training programs, collaboration initiatives

Governance



Corporate Governance Standards
Compliant with Corporate Governance Principles



Code of Conduct
Focus on working legally, ethically and safely, Group Whistleblower Policy



Anti-Bribery and Corruption
Zero-tolerance approach



Human Rights
Modern Slavery Statement, Maritime Labour Convention & Offshore Standards

We advocate for the sustainable development of Marine & Offshore resources.



ALDRICH OFFSHORE

BY NIAAM



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