

# AMBOILERS

UNDERSTANDING NEEDS  
**DELIVERING  
SOLUTIONS**

**Specialists in:**

**Repairs & Maintenance of:**

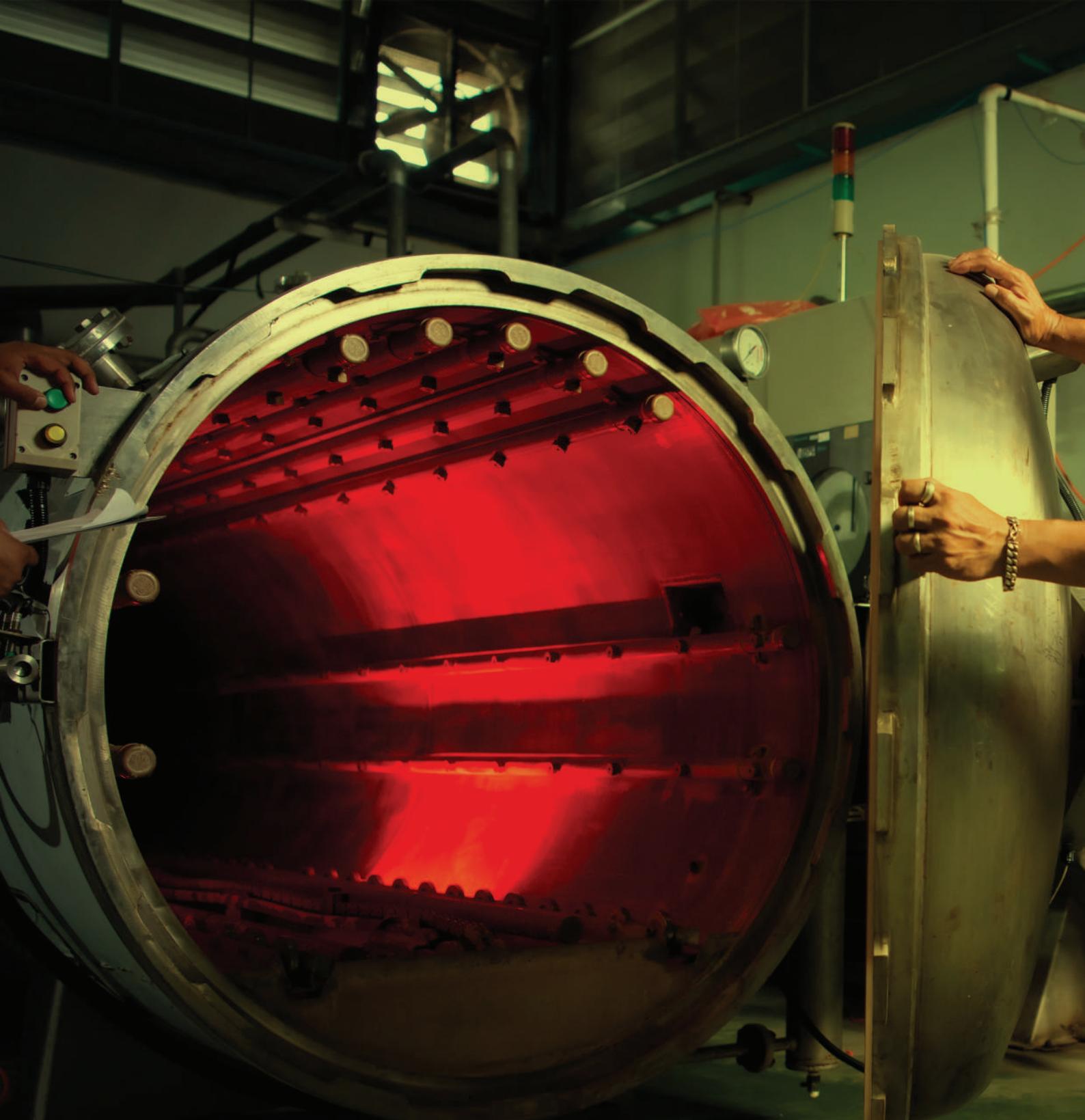
Boilers  
Economizers  
Heat Exchangers, Condensers & Coolers

**Services of:**

Refractory & Insulation  
Chemical Cleaning  
Digital Video Borescope

**Manufacturing of:**

Expansion Joints - Bellows



BOILERS OUR  
SPECIALITY





## MANAGING DIRECTOR'S MESSAGE

Founded in 2004 in Dubai, Al Mufaddal Engineering & Marine Services Co. LLC has grown from a small emergency boiler repair unit into a trusted holistic solutions provider for marine and industrial systems across the Middle East.

Guided by the vision of our founder Mr. Shabbir Shujauddin, and driven by our core values: hard work, quality, and integrity: we deliver precision repair and fabrication services for boilers, economizers, valves, piping, and more.

*"There is no substitute for hard work, no compromise for quality, and no shortcuts to success."*

Our growth has been made possible by our dedicated team and the continued trust of our valued clients, to whom we express our deepest gratitude.

Huzaifa S.T.  
Managing Director

# ABOUT US

**AM Boilers**, part of the esteemed **Al Mufaddal Group**, brings over five decades of industry experience and credibility. We specialize in the inspection, repair, and maintenance of various types of boilers and heat transfer systems. Our services include tube bending, retubing, as well as refractory and insulation installation, and high-pressure jetting.

We maintain a vast inventory of essential raw materials, including tubes, boiler plates, insulation, and refractory materials. Our team of highly skilled and experienced technicians is available 24/7, enabling us to provide comprehensive turnkey solutions for the marine, oil and gas, chemical, power, and desalination industries.

Our certified engineers and IACS class-approved welders are proficient in GTAW (TIG), GMAW (MIG), and SMAW welding processes. They deliver complex projects with speed and precision, even in confined spaces. Additionally, our workshop is certified by DNV-GL for boiler manufacturing and repair.

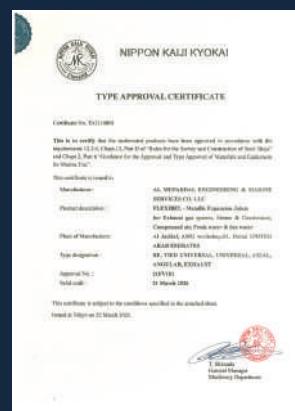
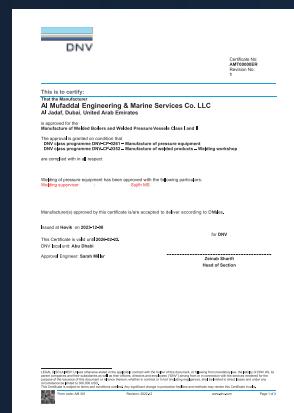
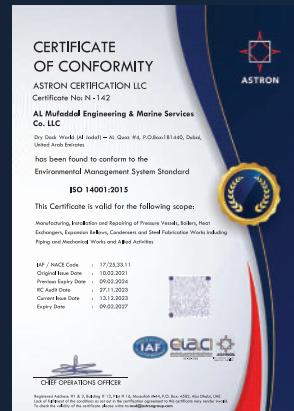
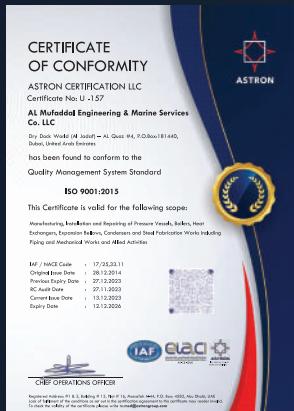


# QUALITY MANAGEMENT SYSTEM

At **AM Boilers**, we are committed to delivering professional, responsive, and high-quality services that meet client needs and exceed expectations. Our quality policy ensures every project is executed to the highest standards, backed by a certified ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 management system.

## WE FOCUS ON:

- Continuous improvement and innovation
- Client satisfaction and performance excellence
- Clear communication of policies and objectives
- We also prioritize environmental responsibility through pollution control, recycling, and waste reduction practices.





THE PREFERREL  
BOILER EXPERTS.

# BOILERS



# BOILER INSPECTION

## Ensuring Safety, Compliance & Operational Reliability

AM BOILERS provides professional marine boiler inspection services to assess equipment condition, ensure compliance with class and statutory requirements, and identify potential issues at an early stage.

Inspections are carried out by experienced engineers during port stay or while sailing, using appropriate testing methods based on boiler condition and operational requirements.

## Scope of Service

Internal and external boiler inspections

Furnace, tube plate, and boiler tube assessment

Refractory condition evaluation

Ultrasonic thickness gauging (UT)

Magnetic Particle Inspection (MPI), where applicable

Leakage detection and performance checks

## Key Benefits



Early identification of defects and wear



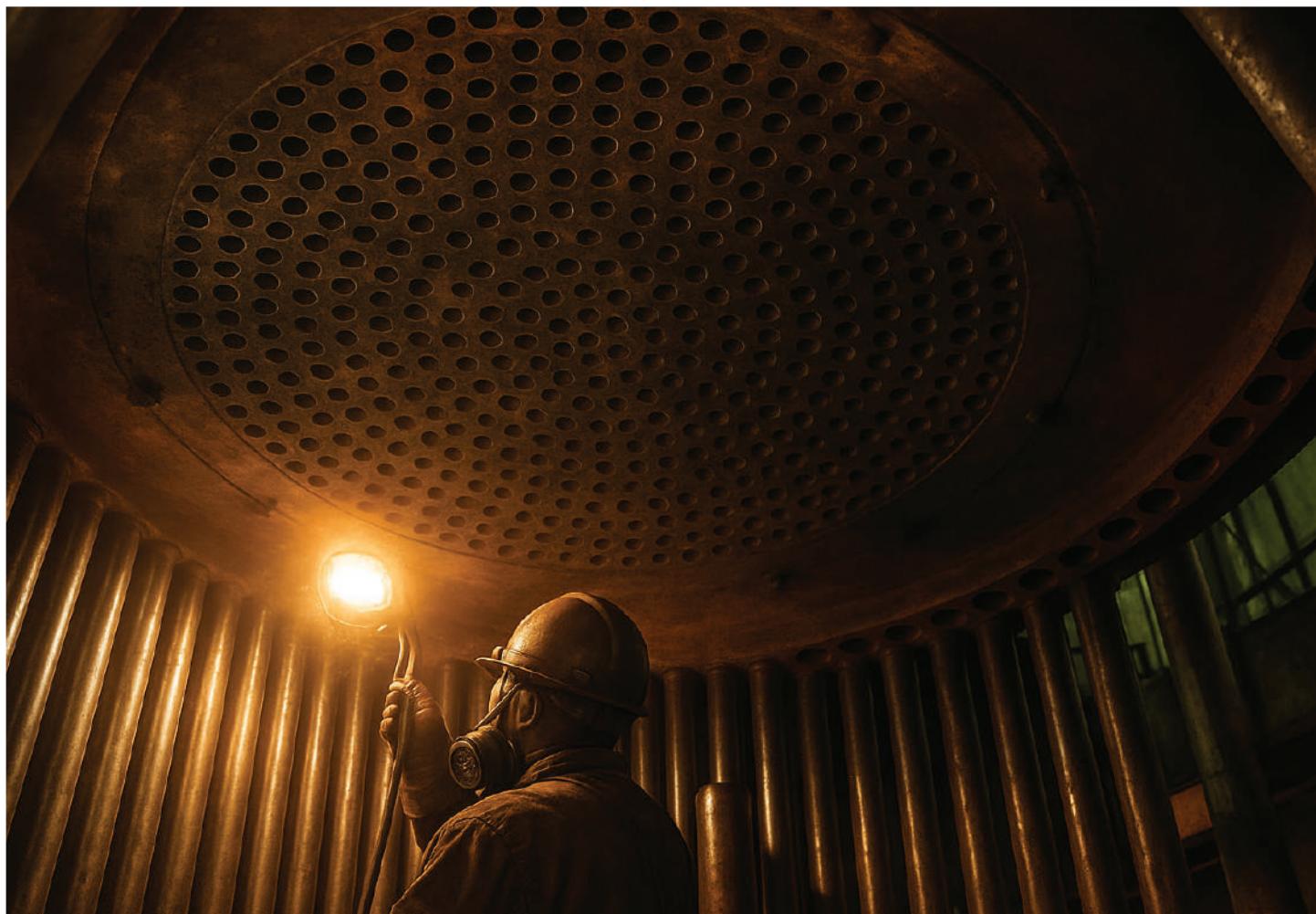
Compliance with class and statutory regulations



Reduced risk of unplanned breakdowns



Improved operational safety and reliability



# PREVENTIVE MAINTENANCE

## Proactive Care for Long-Term Performance

AM BOILERS offers structured preventive maintenance services designed to maintain boiler efficiency, extend equipment life, and prevent unexpected failures.

Our proactive approach focuses on identifying potential problems early and planning corrective actions before major repairs are required.

## Scope of Service

Routine boiler condition monitoring

Performance and efficiency assessment

Safety valve and control system checks

Combustion system inspection

Early defect identification

Maintenance and repair recommendations

## Key Benefits



Improved boiler efficiency and reliability



Enhanced operational safety



Reduced emergency repairs



Extended boiler service life



Optimized maintenance costs



# BOILER REPAIR

## Reliable Repairs with Minimal Downtime

With over 20 years of experience, AM BOILERS delivers dependable marine boiler repair services for both planned maintenance and emergency situations.

Repairs can be carried out onboard, at anchorage, during sea passage, or in dry-dock, ensuring flexibility and minimal disruption to vessel operations.

## Scope of Service

Boiler tube renewal and expansion

Furnace and combustion chamber repairs

Tube plate repair and welding

Refractory removal and renewal

Leakage rectification

Pressure part repairs

## Key Benefits



Skilled boiler makers and certified welders



Repairs executed as per class standards



Reduced vessel downtime



Safe, efficient, and reliable restoration of boiler performance



# COMPREHENSIVE SOLUTIONS OFFERED

## AUXILIARY BOILER

Inspection & Servicing

U.T thickness gauging and Video scope/endoscope inspection of tubes and submit our recommendation and repair scope.

Re-Tubing/Repairs/Refurbishment of all types of the boiler under the classification society.

All types of tube bending and tube panel fabrication

Renewal of Refractory and insulation

Annual survey

Riding crew with seamen book for worldwide repair offshore repair.

## ECONOMIZERS

Renewal of water tubes, tube panels, heating elements (all types)

Fabrication and supply of heating elements/coils in casketed type, helical and spiraled & pancake coils as per the OEM sketch or samples

Supply of fin, pin, and bare tubes with class certificates





## INCINERATOR

- Supply of refractory materials
- Renewal of partial/complete refractory lining
- Renewal of segment/pre-cast block type and refractory tiles as per OEM specification.
- Burner overhauling and combustion system

## IGG REPAIR

- Water cooling jacket repair/renewal

## EXPANSION JOINTS

- Fabrication & Supply of metallic expansion joints/bellows for exhaust gas, steam, condensate water, and LPG application, ranging from 100 mm diameter to 5000 mm diameter.

# ECONOMIZER



Economizers can save a great deal of energy. They can also waste energy if they are not operating properly or are improperly adjusted. Many economizers are not functioning at all or are out of service because they are not well understood by some service technicians. Many service technicians simply disable them. It is essential that economizers are working properly and saving energy rather than increasing costs.

Our team of Expert Engineers is ready to inspect, submit documented report, repair, completely rebuilt, design, install and trace the trouble shooting components for all types of Economizers such plain tube, spiral fin tube, helical fin tube, pin tube, single & double H finned tubes. Our stock of fabrication dies allow us to provide everything from superheater elements to single bends.



# ECONOMIZER



## SUPERHEATER

One of the most important accessories of a boiler is a super heater. Steam will leave the water at its surface and pass into the steam space. Steam formed above the water surface is always saturated and cannot become superheated in the boiler shell, as it is constantly in contact with the water surface. If superheated steam is required, the saturated steam must pass through a superheater. This is simply a heat exchanger where additional heat is added to the saturated steam.

The Superheater increases the capacity of the plant, eliminates corrosion & reduces steam consumption of the steam turbine.

We have the expertise and facilities to fabricate Superheater coils in most complicated shapes, gauge and size and the craftsmanship to install in most confined places within a stipulated time. Depending upon the temperatures we can offer different grades of tube material from stock.



# REFRACTORY & INSULATION

## REFRACTORY

Whether you need regularly scheduled maintenance, or have an unexpected outage – **AM Boilers** has a professional team who offers the highest quality standards and performance on every project installing either refractory bricks, castables, ramming or gunning materials.

We have extensive experience in the sale and installation of refractory materials and our "team" oriented approach to reducing our customers' downtime has set a new standard of service in the industry. We understand that relationships are built on trust and backed by performance. **AM Boilers** knows what is expected during the critical time of an outage and realizes that working as a TEAM gets you back on line faster – minimizing downtime and maximizing the runtime of your unit.



We specialize in the refractory lining, installation and repair for boilers, incinerators & exhaust stacks.

We have a good range of refractory materials available from stock:

**CASTABLES - FIREBRICKS - INSULATING BRICKS - CERAMIC FIBRE BLANKET**



## Thermal Insulation Services (Lagging Services)

Reduce your fuel bills and carbon footprint with efficient thermal insulation.

**AM Boilers** offers a complete range of insulation services for all types of pipework plant and equipment, conserving fuel and energy costs through properly applied and efficient insulation and cladding. We can provide a low cost lagging service from small plant room lagging installations up to overall site maintenance contracts for increased thermal efficiency of insulated plant coupled with complete marine insulation services.



### Our Insulation services include:

Marine insulation of engine exhausts and generator exhausts including boilers, economizers, cargo heaters etc.

Steam, condensate, cooling water, chemical services, all pipework services, all sizes.



# HEAT EXCHANGER CONDENSERS COOLER

"We do renovation of shell and tube heat exchangers such as repair of steam condensers, lub oil coolers, cargo heaters & condensers, multi stage SW evaporators, and refrigerant condensers.

In our workshop we renovate tube and shell heat exchanger with new tube elements and/or shell. The heat exchanger will be fitted with new insulation if necessary. Complete re-tubing of tube bundles, are also offered. Our preference is to re-tube/refurbish in our own workshop where the work can be carried out under factory conditions. Where this is not possible in-situ repairs can be arranged.

We have some of the most up to date equipment for tube pulling to undertake partial re-tubing and an experienced team of engineers which guarantees outstanding quality work at competitive prices.

We have a track record of repairing and retubing condensers A.S.A.P. to make sure the vessel reaches the next port of call just in time."



## DIGITAL VIDEO BORESCOPE

AM Boilers is equipped with portable, highly advanced VIDEO BORESCOPE, latest technology currently available in the industry, that delivers sharp, high resolution, clear digital images to tackle inspections in small, hard to reach places like inspection of pipelines, gas turbines, steam turbines, steam generators, heat exchangers, automotive engines, underground sewer lines, etc. It can detect any damage or defects of up to a length of 10 meters with a 360 degree articulation allowing for navigation in tight applications without disassembly ensuring unlimited inspection access and unprecedented ease of use.

Inspection results can be viewed online or captured as high-resolution images or MPEG4 video for analysis or collaboration.



# CHEMICAL CLEANING SERVICES

We specialize in high-performance chemical cleaning of boilers, heat exchangers, pipelines, and water systems in the marine, oil, gas, and industrial sectors. Our professional team removes challenging impurities to ensure system efficiency, prolonged equipment life, and little downtime, all in accordance with international standards.



# COMPREHENSIVE INDUSTRIAL CLEANING SOLUTIONS FOR ENHANCED EQUIPMENT EFFICIENCY

## Boiler cleaning

Acid cleaning of boiler water scales and degreasing of boiler oil contamination

## Pre-Commissioning & Turnaround Cleaning

Essential for new plant startups and maintenance shutdowns, chemical cleaning ensures the removal of construction debris, corrosion products,

## Heat Exchanger & Boiler Cleaning

Regular chemical cleaning of heat exchangers and boilers prevents scaling and fouling, which can lead to reduced efficiency and equipment failure.

## Pipeline & Tank Cleaning

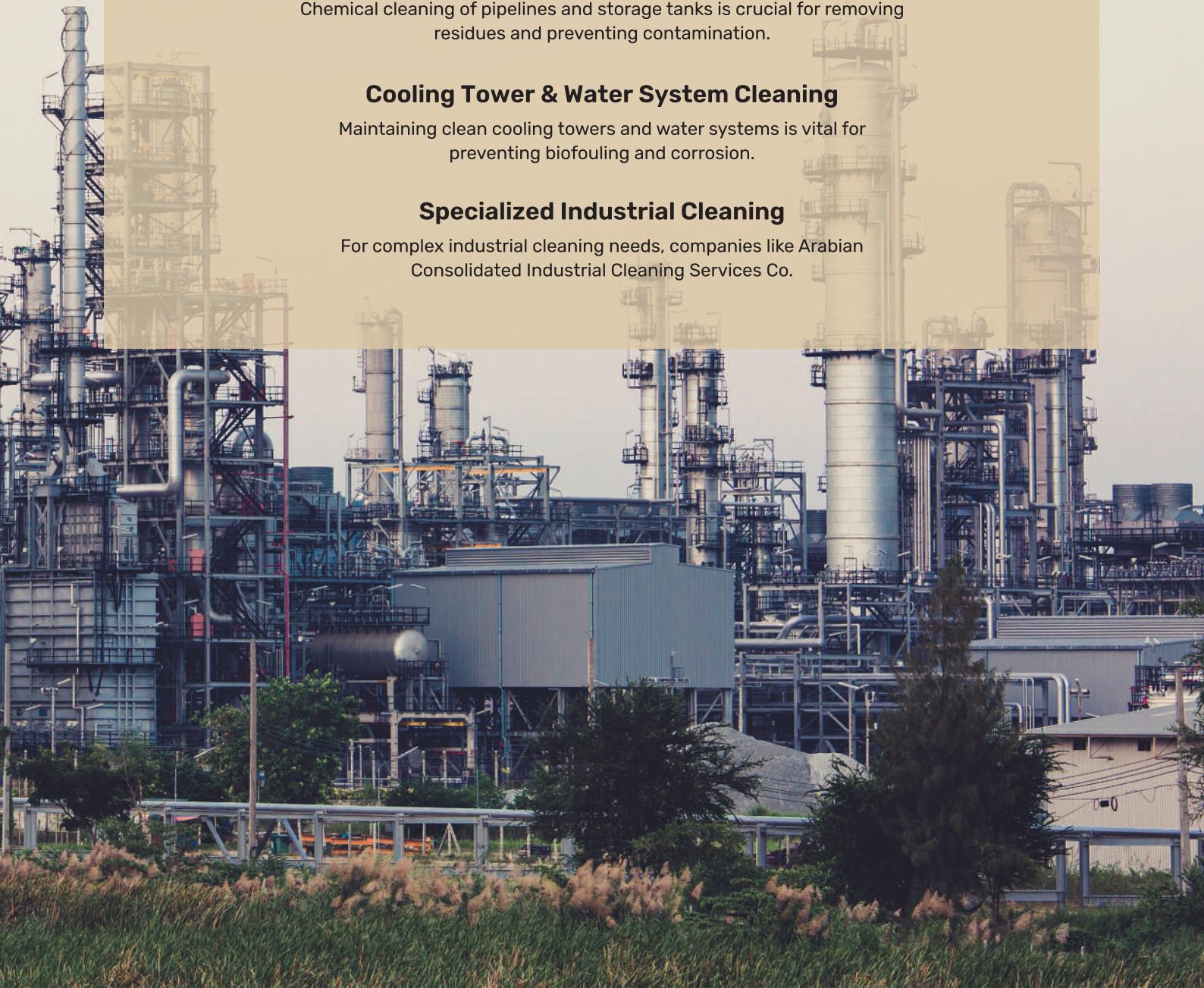
Chemical cleaning of pipelines and storage tanks is crucial for removing residues and preventing contamination.

## Cooling Tower & Water System Cleaning

Maintaining clean cooling towers and water systems is vital for preventing biofouling and corrosion.

## Specialized Industrial Cleaning

For complex industrial cleaning needs, companies like Arabian Consolidated Industrial Cleaning Services Co.



Chemical cleaning is one of the most efficient, safe and more economical method of cleaning process equipment than the older, labor-intensive mechanical methods. It offers many advantages such as;

- It can be performed on site without disassembling & moving equipment, saving enormous time, labor & associated costs.
- It eliminates the need for physical entry of personnel thus offering a much safer alternative.
- It conditions the process surface to reduce future fouling.
- It can handle systems which are difficult to reach by other conventional cleaning methods such as hydro-jetting.

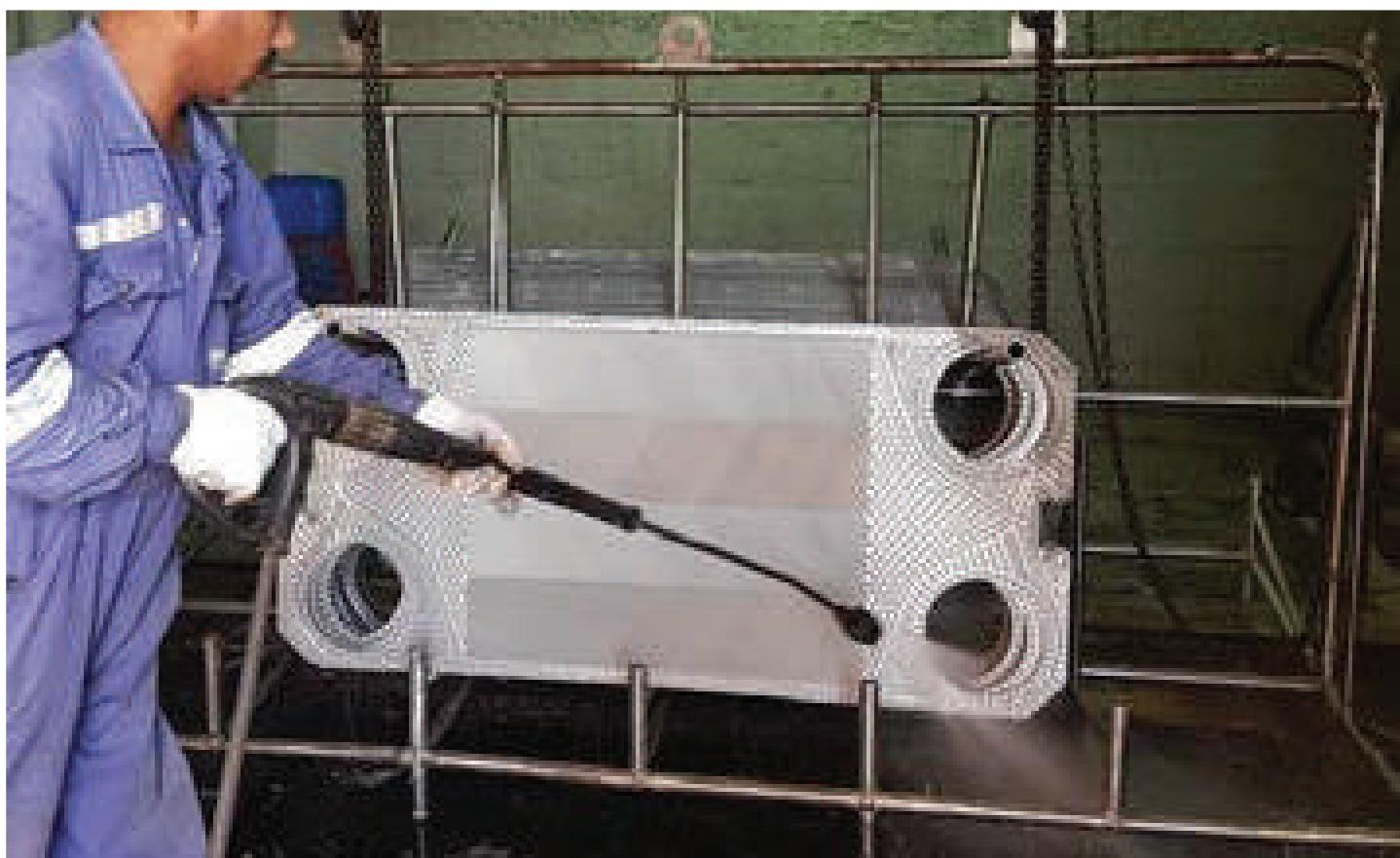


**AM Boiler** is dealing with chemical cleaning of various metallurgies such as; carbon steel, stainless steel, cupro nickel, aluminum brass, titanium etc. Our highly skilled chemical engineers carry out a thorough analysis to identify the optimum cleaning method ensuring it will successfully remove the fouling without negatively affecting the process equipment.



## AM BOILERS OFFERS FOLLOWING SERVICES:

- Alkaline boil out
- Degreasing treatment for removing hydrocarbon sludge and oily residue
- Acid treatment for removing water scale and corrosion products
- Passivation to protect surface layer from oxidation
- Pickling/passivation surface treatment for stainless steel
- Solvent cleaning for removing coal and tar deposits
- Ultrasonic cleaning and foam cleaning



### Typical Applications:

- Marine and industrial boiler
- Plate Heat exchanger
- Condenser and shell & tube heat exchanger
- Fin Fan and Air cooler
- Tank and Vessel
- Piping

### Industries Served:

- Marine, offshore & onshore
- Ship building & ship repair
- Oil & gas
- Petrochemical
- Power plants

# SPECIALIZED SPARE PARTS SUPPLY FOR MARINE & INDUSTRIAL APPLICATIONS

As an extended division of the Al Mufaddal Group, AM BOILERS offers comprehensive marine spare parts supply solutions, supporting vessels worldwide with reliable sourcing, competitive pricing, and prompt delivery.

Backed by dedicated warehouse facilities and strong supplier networks, we ensure vessels receive the right parts, at the right time, with assured quality.

## OUR SUPPLY CAPABILITIES

We supply Genuine, Equivalent, and OEM marine spare parts for major shipboard systems, including:

- Main & Auxiliary Engines
- Boilers & Boiler Spares
- Compressors, Pumps, Motors & Generators
- Automation systems & switchgears
- Oil separators & fresh water generators
- Electrical spares & control components
- Bridge equipment & deck machinery

## DECK & ENGINE STORES

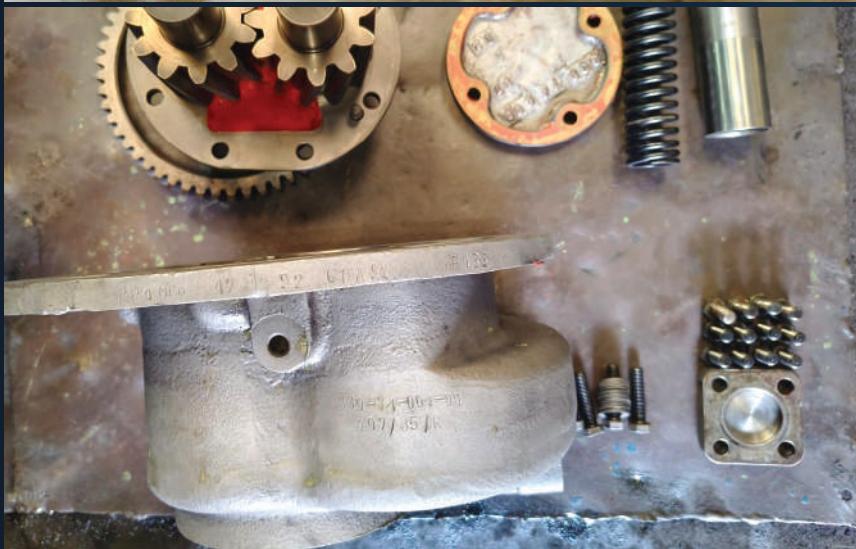
Our warehouse supports essential deck, engine, and general marine stores, including:

- Tools, machinery & fitting tools
- Welding equipment & consumables
- Electrical, engine room & deck stores
- General and cleaning items

Beyond spare parts, we also support vessels with:

- Provisions & fresh water supply
- Compressor repair services
- Sludge removal
- Cargo gear inspection
- LSA / FFA inspection and services





# EXPANSION BELLows

## DURABLE JOINING SOLUTIONS FOR RIGID APPLICATIONS

Available in all types of Stainless Steel Grades  
Sizes available from DN 100 to DN 3000  
Can withstand Temperature up to 680 degree  
C & Pressure up to 40 bar  
Type approval from Bureau Veritas

## CUSTOMIZED BELLows AVAILABLE

Bellow Elements with Collars  
Axial Expansion Joint  
Double/Universal Expansion Joints  
Tied Universal Expansion Joints  
In-Line Pressure Balanced Expansion Joints  
Rectangular Expansion Joints

## INDUSTRIES SERVED

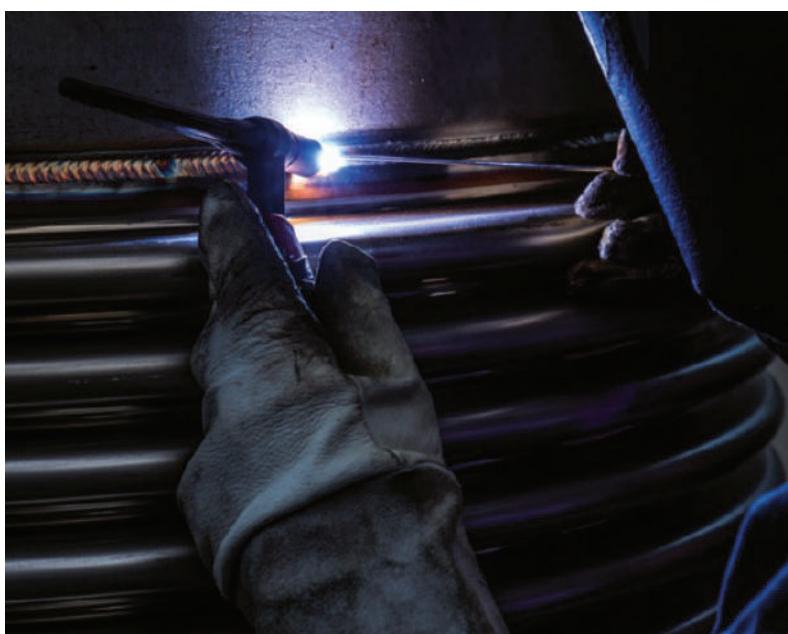
MARINE - OIL & GAS PLATFORMS - POWER PLANTS  
- STEEL PLANTS - CONSTRUCTION - CEMENT  
PLANTS - NUCLEAR PLANTS - MINING

**Flexibel Bellows** absorbs thermal expansion & vibrations in the pipeline. It significantly improves the service life of pipelines & connected equipments. It has a capability to withstand the high offset motions, misalignment & vibratory conditions.

**Flexibel Bellows** are resilient towards pressure & temperature. An anti corrosion substitute for joining solutions with zero maintenance and heat & friction losses.

**Flexibel Bellows** is a perfect balance of Strength & Flexibility.

 **FLEXIBEL**  
EXPANSION  
JOINTS





TIME IS  
MONEY,  
WE  
OPTIMIZE  
BOTH.



# ALMUFADDAL GROUP

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**WE'RE HERE  
TO HELP.**

For service inquiries, project consultations, or partnerships, reach out to our team. We're ready to deliver prompt, professional support tailored to your needs.