

**SUN ENGINEERING &  
COMMERCIAL  
SERVICES L.L.C**

**COMPANY PROFILE**



# ABOUT SENCO



M/s Sun Engineering & Commercial Services (SENCO) is a fully Omani owned established with an intention to cater the growing demands of Oil & Gas and Industrial customers in Sultanate of Oman.

The primary focus of the company is to provide specialized Engineering & Maintenance services to the Oil & Gas, Power, Infrastructure and Utility sectors.

In accordance with the vision of His Majesty on Development of national talent and entrepreneurship, the company has started off as an Omani Start up with strong commitment to utilize the external talent to develop local Omani capabilities while offering most professional and quality services to its clients.

The company has a motto of serving the customers with excellence in their sphere of activities.

We are fully committed to meeting the client requirements in terms of quality and promptness while becoming fully Omani owned professional entity in accordance with the government's vision for development.



**SUN ENGINEERING & COMMERCIAL SERVICES L.L.C**

[www.sencoserve.com](http://www.sencoserve.com)

## We offer following services to the Industrial, Oil & Gas clients through our In-house capabilities and Partners and Industry specialists.



- ✓ Engineering & Construction Services.
- ✓ Storage Tank Construction & Maintenance Services.
- ✓ Decommissioning, Inspection, Revamp, Refurbish the Crude Oil & Atmospheric Gas storage Tanks.
- ✓ Tank Roof Air lifting and Robotic Tank Cleaning Services.
- ✓ Fabrication of High-Pressure Vessels, Heat Exchangers, Furnace Equipment, Outlet Systems, HP Pipelines.
- ✓ Maintenance, Repair and Overhauling of Rotating Equipment, Vessels and Columns & Flares.
- ✓ Water Treatment plants services.
- ✓ Flange Management, Bolting, Torquing, Tensioning Services.
- ✓ Plant Shut Down & Turn Around Services.
- ✓ Catalyst Handling Services.
- ✓ Pipeline & Process Services.
- ✓ Mechanical & Plant Maintenance Services.
- ✓ Chemical Decontamination & Online Cleaning Services.
- ✓ EOR Steam services.
- ✓ Heat Transfer Fluid Management
- ✓ Boiler Repair, Heat Exchanger Retubing & Maintenance, High Pressure Water Jetting & Dry Ice blasting Services.
- ✓ Supply of Specialized products



# OUR PARTNERS

SUN ENGINEERING & COMMERCIAL SERVICES L.L.C



# CR3 GROUP



- Established in 1991, CR3 provide energy engineering solutions to customers through our permanent facilities in Thailand, Singapore, Malaysia and India. Currently, CR3 employ a regular workforce of over 4,500 staff.
- CR3 have strong onshore and offshore capabilities, a proven track record of successful project delivery and continually invest in new technology to improve safety and generate more value for customers. We pride ourselves on delivering safer, faster and more efficient results.

## Our Business

30



years in business



4



operational bases serving 18 active markets



4,500<sup>+</sup>



experts





# CR3 SERVICES FOR ONSHORE & OFFSHORE FACILITIES



## PLANT SHUTDOWN & TURN AROUNDS

- STATIC & ROTATING EQUIPMENT MAINTENANCE
- MECHANICAL SERVICES
- COLUMN MODIFICATIONS & REPAIRS
- TOTAL HEAT EXCHANGER MAINTENANCE
- FLARE TIP REPLACEMENTS & REPAIRS
- CLEANING & DECONTAMINATION SERVICES
- MERCURY MANAGEMENT SERVICES
- CATALYST HANDLING SERVICES
- NITROGEN SERVICES
- WASTE HANDLING
- DECOMMISSIONING SERVICES
- INDUSTRIAL SCAFFOLDING
- INSULATION SERVICES
- VALVE MAINTENANCE
- STORAGE TANK CLEANING & MAINTENANCE

## INDUSTRIAL CLEANING SERVICES

- CHEMICAL CLEANING SERVICES
- MERCURY MANAGEMENT SERVICES
- FIN FAN OPTIMIZATION
- HYDRO JETTING SERVICES
- CR ASIA DECOKING TECHNOLOGY (CDT)
- DECONTAMINATION SERVICES
- WASTE HANDLING

## REVAMP CONSTRUCTION & EPCC SERVICES

- PROCESS REVAMPS, REJUVENATIONS & RETROFITS
- CONSTRUCTION & CONSTRUCTABILITY REVIEWS
- ENGINEERING, PROCUREMENT & COMMISSIONING SERVICES
- OPERATIONS & MAINTENANCE
- EQUIPMENT DISMANTLING, DEMOLISHING & REMOVAL
- FABRICATION OF STRUCTURAL, CARBON STEELS & PIPE SYSTEMS
- FABRICATION OF STAINLESS STEELS & SPECIAL ALLOYS
- INSTALLATION OF LARGE EQUIPMENT & PIPE SYSTEMS
- WELDING
- HOT & COLD CUTTING
- SCAFFOLDING & INSULATION

## CATALYST HANDLING SERVICES

- CATALYST & ADSORBENT HANDLING SERVICES
- TUBULAR REACTOR SERVICES
- DENSE LOADING
- 'BLIND TO BLIND' MECHANICAL SERVICES
- REACTOR INTERNALS REPLACEMENT & REPAIRS
- NITROGEN SERVICES
- WASTE HANDLING

## MECH & PLANT MAINT SERVICES

- STATIC EQUIPMENT MAINTENANCE
- ROTATING EQUIPMENT MAINTENANCE
- SPECIALIST CUTTING SERVICES
- ONLINE LEAK SEALING
- CONTROLLED BOLTING
- REACTOR REPAIRS & MAINTENANCE
- PLANT CHANGE & PIPING MODIFICATIONS
- IN-SITU FLANGE FACING & MACHINING
- CONTINUOUS PLANT MAINTENANCE
- INDUSTRIAL SCAFFOLDING
- INSULATION SERVICES
- VALVE MAINTENANCE
- STORAGE TANK CLEANING & MAINTENANCE

## PIPELINE & PROCESS SERVICES

- DRYING
- PURGING
- DEWATERING
- NITROGEN SERVICES
- PIPELINE FLOODING
- PRESSURE TESTING
- PIPELINE CLEANING (CHEMICAL & MECHANICAL)
- PRE-COMMISSIONING & COMMISSIONING SERVICES



# PRESENCE OF CR3



- THAILAND
- INDIA
- SINGAPORE
- MALAYSIA
- + MIDDLE EAST



# HEAT TRANSFER FLUID MANAGEMENT



- ADDAR GROUP (Global Specialty Chemicals) was established as an industrial Chemical services Saudi company in 1999.
- GSC offers its Own G-THERM K™ line of premium synthetic organic heat Transfer fluids. G-THERM represent an exceptional array of heat transfer fluids for use in applications between -62°C to 405C.

Over time, all heat transfer fluids degrade. In the early stages of degradation, fluid viscosity rises, heat transfer declines, fluids darken, and odor intensifies. In More advanced state of fluid degradation , fluid viscosity rises and more sharply and think tar or residues build up in system vessels and piping, Once this occurs efficiency drops off more rapidly as pumps work harder, and residues foul heat transfer surfaces.

## Our Solution:

- **Reclaim the degraded fluids:** Through ACG's "Clear Value Reclaim and Return Program" customer send us their degraded heat transfer fluids. We remove those contaminants responsible for degraded performance and then return what's left. Fluids reclaimed in this way perform as new, dramatically extending fluid use-life and saving upto 75% over the cost or virgin replacement fluid.
- **Selling the reclaimed fluids:** For those interested in purchase in reclaimed heat transfer fluids, but who currently have none to recycle, we offer a wide range of commercially available heat transfer fluids that have already been reclaimed, are delivered from inventory and typically cost about 30% less than virgin alternatives.
- **Buying the degraded fluids:** If you have degraded heat transfer fluids, but don't need replacement fluid or prefer not to use reclaimed materials, we offer a variety of virgin heat transfer fluids and will generally purchase your degraded fluid to help offset the cost of your new fluid purchase.



# HEAT TRANSFER FLUID MANAGEMENT

## On Site Reclamation Services:

ADDAR Chem Group offers an economical on site reclamation services with a portable, skid mounted unit which can effectively remove impurities from your contaminated fluid at your location and without ever having to shutdown the chemical system. The Portable Reclaimer is ideally suited for customers that have chemical contamination causing operational issues or desire their chemical solution quality to be improved.

The Reclaimer Unit is a self-contained, fully automated vacuum distillation processing unit. It is based on proven Addar Chem Group's short path distillation technology. It has a mechanically simple design, which is safe, reliable and low maintenance.

Our Reclamation unit is a Short Path & Wiped Film Distillation based and capable to process and reclaim a wide Range of Chemical Material and save money and environment.

## OFF Site Reclamation Services:

Through ACG's "Clear Value Reclaim & Return Program" Customers have the option of sending their contaminated material to Addar Chem Group's affiliates in USA or to its facility soon in Saudi Arabia, We remove those contaminants responsible and then return refined product for reuse. Fluids recovered in this way perform as new, dramatically extending product use-life.

Addar Chem Group, ACG. Offers a free analytical service, called THERMACARE, to monitor fluid condition and provide technical back-up and advice to correct any system or fluid problems.

Addar Chem Group provides sampling kits and reminders to sample as needed.

## Project Process Flow:

- Identify & Understand Customer Reclaiming Needs
- Obtain & Interpret Amine Analysis.
- Identify Problematic Contaminants & Establish Reduction Targets.
- Provide Custom Reclamation Proposal.
- Work with Customer to identify Utility Requirements and Tie-ins for.
- Portable Unit Scheduling of Project and Contract Signing.
- Transport Portable Unit to Customer Facility.
- Unit Set up and Hook up.
- Project Execution with QA/QC (Confirm Product Quality, Recovery, System Purification).
- Job Completion (flush system, dismantle, transport to next site)

# HEAT TRANSFER FLUID MANAGEMENT

## PRODUCTS WE RECLAIM

### AMINES

- Monoethanolamine(MEA)
- Diethanolamine(DEA)
- Triethanolamine(TEA)
- Methyldiethanolamine(MDEA)
- Diglycolamine
- Di-isopropanolamine(DIPA)
- DGA®
- Sulfolane
- Sulfinal
- Selexsol™
- UCARSOL 2 Solvents
- GAS/SPEC® Solvents
- FLEXSORB™ Solvents
- JEFFTREAT™ Specialty Solvents

### GLYCOLS

- MonoethyleneGlycol (MEG)
- DiethyleneGlycol (DEG)
- PropyleneGlycol (PG)
- TriethyleneGlycol (TEG)
- TetraethyleneGlycol (TTEG)
- Glycol Blends

### HEAT TRANSFER SOLUTIONS:

- Dowtherm
- Therminol
- Paratherm
- Marlotherm
- Multitherm
- Syltherm



ENGINEERING  
FABRICATION  
INNOVATION



# INNOWELD

General Information



SUN ENGINEERING & COMMERCIAL SERVICES L.L.C

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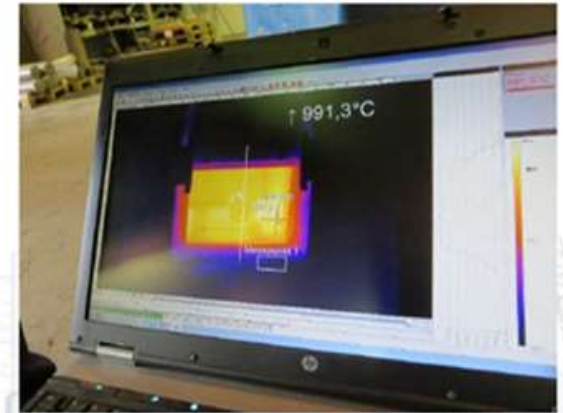


## OFFERS

Experience with all types of materials



- Carbon steel
- Low alloy steel
- Hydrogen-resistant steel
- Heat-resistant steel
- Corrosion-resistant steel
- Non-magnetic steel
- Duplex and Superduplex
- Nickel and nickel base-alloys
- Titanium and titanium-alloys
- Alumina and alumina-alloys
- Compound materials (lining, cladding, weld overlay)
- Further special materials





## INNOWELD APPROVALS AND QUALIFICATION

Important for success and entire satisfaction of clients worldwide is our perfect Quality Assurance system, which is basing international approvals required. Numerous approvals available lead to the use of norms and an optimized workflow in several areas:

- ISO 9001
- ASME U- and U2-Stamp
- Safety Quality License China
- Pressure Vessel Manufacture Certificate Korea
- AD-Leaflet HP 0/TRD 201
- Lloyd's Register of Shipping
- Germanic Lloyd's
- AQAP
- UDT
- EN 729/2
- SVTI
- ÖNORM M 7812-1
- Specific rules from our customers
- DIN2303
- DIN6700-2 Schienenfahrzeuge
- DIN18800-7 Stahlbauten
- EN3834-2
- Russian Standards inc. regulations TR CU 032/2013

PED-ADHPO



ISO 9001



SQL CHINA



ASME U



ASME U2



ASMES



KGS



TRCU





## SIZE LIMITS

### Weight

for Monowall-type: 150 tons

for Multilayer-type: 100 tons

for Doubletube-type: 100 tons

### Diameter

road transport: 5,0 m

carriage by rail: 3,6 m

### Length

depends on transport situation

and diameter: up to 40 m





## WHERE WE USE OUR KNOWLEDGE?

We provide individual solutions customized to your specific needs as well as fabrication exactly to your requirements. With everything from one hand, a big range of fabrication possibilities and a strong relationship to partners and suppliers, we take care for high-quality and on-time execution.

Our expertise in fabrication of high pressure and high temperature equipment combined with the knowledge of handling a long list of materials makes us a favorable supplier for a variation of products. Beside keeping the focus on pressure equipment for diverse processes, we are also using our know-how for other equipment with the same strict requirements.

Our middle-calls enterprise with a high percentage of engineers in every department offers not only products with the best quality but is also supporting their partners with the best delivery times for their urgently needed equipment and provides the necessary flexibility for the execution of such project.



HP-VESSELS



HP-HEATEXCHANGERS



FURNACE EQUIPMENT



HP- PIPE LINES  
and FITTINGS



WEAR RESISTANT  
COATINGS



QUICKOPENING  
CLOSURE



SPECIAL PRODUCTS



SERVICE CENTER

- Furnace Solutions (FS) company was established in 2007. The company is dedicated to supplying unique services for chemical treatment of on-line process units in refineries and heavy industries worldwide.
- FS Specialized in solving difficult situations on furnaces and we have expertise in cleaning treatments and decontamination processes within the oil and gas industry.
- FS have many years of experience implementing the process involved with cleaning activities for refineries in Europe, Africa, Canada, USA and especially in Middle East.
- Furnace solutions company's first mission is to supply a very high standard cleaning treatment services to refineries worldwide at fair and reasonable prices, which economically a refinery can get the return of investment in a matter of days after the online cleaning is completed. This treatment is so attractive that many refineries are inclined to perform this type of cleaning periodically (usually every 6 – 9 months) to increase production efficiency and reduce costs.





## Why Cleaning treatments:

- Cleaning treatments are needed to save energy, reduce emissions of NOX and less pollution, reduce operation costs, increase safety and to prepare the unit for maintenance work.
- Furnace-Solutions operates a unique on-line cleaning treatment for process heaters and for air coolers. This treatment can be executed while the unit is still “alive” and running, unlike other standard cleaning procedures that can only be operated while the unit is turned-off.
- Furnace-Solutions saves the refinery’s high shut-down costs (such as contractors, materials, supervision, logistics etc.) and saves costs for lost production days. In addition, shut-down or start-up procedures include risks and safety issues which the refinery would prefer to reduce if not completely avoid.



Furnace  
SOLUTIONS



## What we do:



# Furnace SOLUTIONS

- **Furnace-Solutions.** supplies the refinery manpower, chemicals and the spraying equipment, air compressor and additional equipment. The cleaning treatment implemented by Furnace-Solutions involves that of a LOW pressure spraying of various chemicals.
- This treatment can be executed during the day or night shifts of 8-12 hrs.
- **RADIANTS AND CONVECTION ON-LINE** cleaning shall be proposed. A cleaning treatment for one heater can last 2-3 days and the effects of the treatment are immediately noticeable because there is a clear increase of the heater / air-cooler efficiency.
- This efficiency can be measured by two main parameters:
  - i. increasing the flow and the heater / air-cooler output.
  - ii. decreasing the energy consumption of the unit.



## BOILER & HEAT TRANSFER EQUIPMENT SERVICES



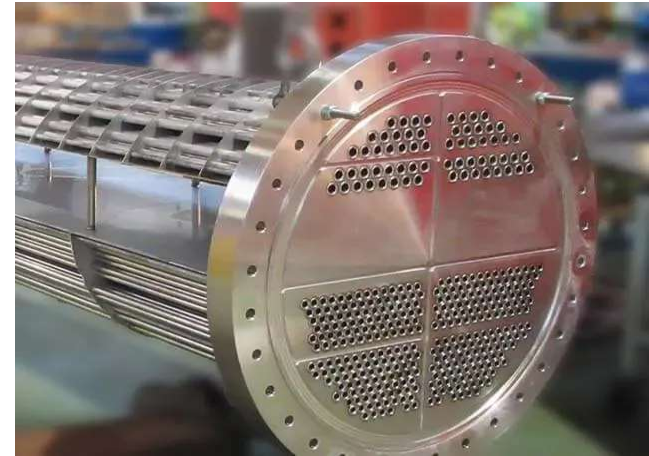
Al Mufaddal is a specialized Engineering company dedicated to provide a complete range of services for inspection, repairs and maintenance of all types of boilers and heat transfer equipment.

These services include tube bending / manipulation, retubing, supply and installation of refractory and insulation materials.

Al Mufaddal Group is also specialized in providing High Pressure Water Jetting pumps and equipment to undertake various activities including:

- High Pressure Flushing of pipe systems (Retro Jetting).
- Cleaning of Tube Bundles.
- Hydro Demolition.
- Cold Cutting.
- Coating Removal, Drill pipe cleaning etc.

We can provide these equipment on Rental and Full Turnkey solutions as per client requirement.

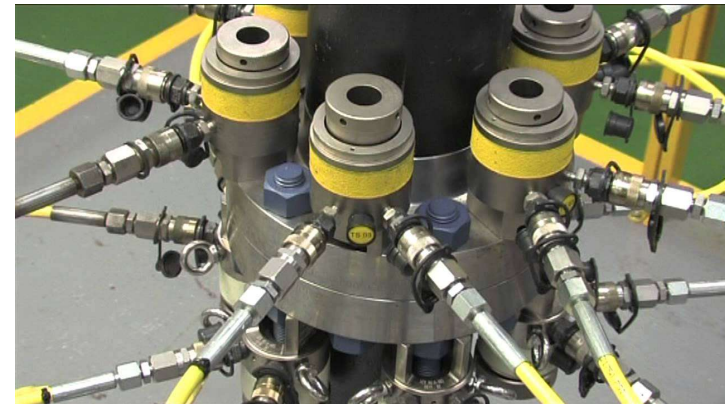




## BOLTING, TORQUING & FLANGE MANAGEMENT



- ✓ **ABS Gulf is a division of ABS Group that specializes in consultative tool sales, on-site bolting, and field machining services in the Gulf region.**
- ✓ **With 20 years of expertise, ABS Gulf work with the vision to help enhance productivity and improve safety at work by empowering customers with the latest technology in torquing, tensioning and portable machining.**
- ✓ **In GCC region, ABS Gulf have successfully established ourselves as the reliable bolting partner for industries such as Oil & Gas, Power, Mining and Infrastructure, through technological leadership of international brands such as Equalizer (UK), TensionPro (UK), and HiSTRONG (India)**



The Holland Engineering Technologies Company (HETC) is based in Rotterdam, the Netherlands & is an authorized partner of Clayton Steam System Solutions for the Middle East & North Africa (MENA).

Our activities include

- i. Steam systems Design and Installation.
- ii. Steam boiler room equipment supply and service.
- iii. Boiler Room Start-up and Commissioning Services.
- iv. Steam Network Assessment Services.
- v. Rental Supply, Operate & Maintain the Steam packages for EOR operations.
- vi. Refurbishing & Upgradation of Old steam packages
- vii. Maintenance of Steam Systems.
- viii. Remote Monitoring of Steam Systems.



- Design, Construction, Commissioning & Optimization of Water Projects.
- Operation & Maintenance of STP, ETP & RO plants.
- Cooling Systems - Condenser & Chiller Descaling / Chemical Cleaning Pre-Commissioning Cleaning & Passivation For Chilled Water System (BSRIA Standards).
- Disinfection Of Public And Domestic Water and Utility Systems.
- Thermic Fluid Boiler Service
- Public & Domestic drinking water system



UV Disinfection / Sterilisation System



# THANK YOU



**SUN ENGINEERING & COMMERCIAL SERVICES L.L.C**

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