



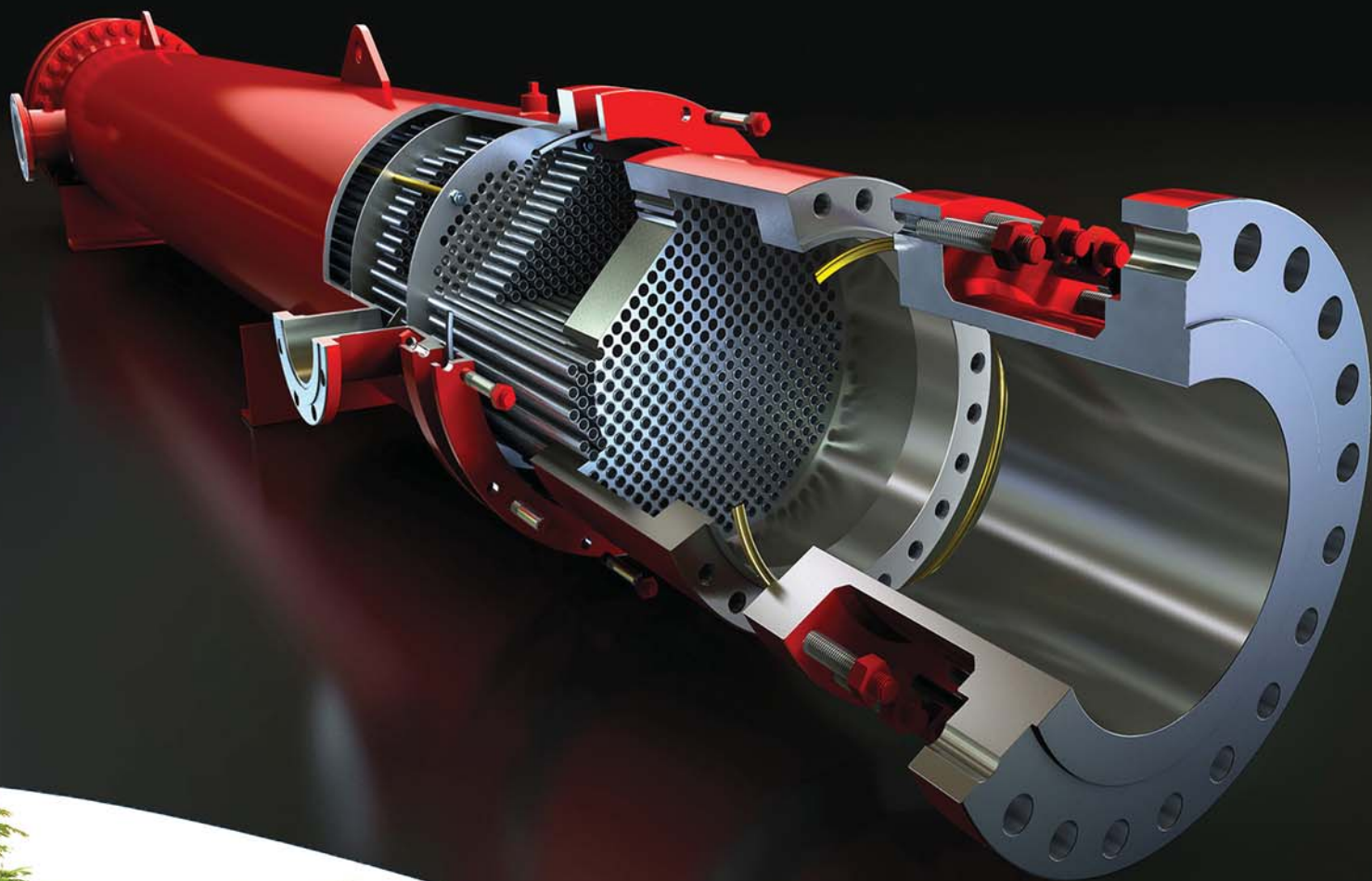
Nash *Engineering FZCO*

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"Transparency in Quality and Standard is core to Industrial Perfection."

HEAT EXCHANGER DIVISION

Manufacturing | Repair & Refurbishment | Shut down activities | Testing & Re-Certification | Manpower Supply



NASH ENGINEERING FZCO

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INTRODUCTION

Nash Engineering FZCO was established in the year 2005 with average manpower of some 400 Personnel in Jebel Ali Free Zone on an area of 50,000 square meters and has since been hailed as a leader in the manufacture and supply of steel products including Stainless Steel, Complete Engineering Design Facility and other new range of engineering services. Nash Engineering FZCO is the renowned, embodying more than a decade of know-how and skill. Coupled with superior infrastructure is a workforce that is highly qualified, skilled and competent. Nash has grown in stature to be called the flagship company of the Group. Yet another advantage is its proximity to the Jebel Ali Port, Nash Engineering has been successfully exporting its products to Europe, Africa, Asia and Far Eastern nations.

Nash Engineering FZCO is one of the renowned Fabrication Company located at Jebel Ali Free Zone South U.A.E, since its inception, It has garnered over decades of experience in the manufacture and supply of steel products . With our large fabrication facilities and modern machinery in Jebel Ali Free Zone. We have the capacity and skills to undertake projects of varying size, tonnage and complexity.



MESSAGE FROM CHAIRMAN



“Transparency in Quality and Standard is core to Industrial Perfection”

We take the pleasure to present NASH Engineering FZCO and briefly outline our experiences and capabilities to provide a complete range of Process Plant Construction, Fabrication, Operation & Maintenance services for Oil refining, Gas processing, Chemical & Petrochemical, Power Generation & Water Treatment sectors in the United Arab Emirates, Arabian Gulf Countries, Europe Africa & Asia. Nash Engineering FZCO services are modular in concept and can be tailored to the exact needs of each individual client. The company has the experience and depth to handle any size of projects, yet is small enough to ensure that all projects receive the personal attention of top management.

Our experience covers a wide range of industrial complex including the clad & coded pressure vessels, **Heat Exchangers**, Columns, Separators, Pressure Piping, Field Storage Tank, Fuel Storage Tank, Skid packages, Heavy and auxiliary steel structure with international quality standard. Nash Engineering FZCO growth & development over the past 15 years, are parallel to the growth of Energy & production industries it serves. We have built our reputation on our ability to anticipate industry's need for increasing complex services to provide, solutions to meet these needs & to provide these solutions on schedule, safely & to the highest level of international quality standards.

Our projected annual fabrication capacity is approximately 25,000.00 tons. Nash Engineering FZCO is dedicated to creative, responsive quality & safe contracting solutions for those we serve. Nash Engg reputation for excellence is reflected on our client list, we are proud to include among our clients ADNOC, SAUDI ARAMCO, ZADCO, ADMA - OPCO, GASCO, ADGAS, ADCO, DEWA, ADWEA, LAMPRELL, SPX, DUBAI PETROLEUM, PETROFAC INTL, EXPRO, VEOLIA WATER SYSTEM, ALSTOM NORWAY, SBM, DOW CHEMICALS, KANOO, ALDERLEY, TYCO, SIEMENS, SAMSUNG, UTELICO, AMAZON FILTERS, TOTAL GROUPS, CCIC, CAT INTERNATIONAL, NOV GROUP OF COMPANIES, FRAMES, WOODS, SIGMA THERMAL, SUEZ, DANIELI, TOSHIBA, TECHNIP, BECHTEL, QATAR PETROLEUM, QATAR GAS, ENTROPIE, KNPC, KOC, SIDEM, etc..

We believe: Quality is more than a policy – It's our whole way of doing business.

Best wishes.

Nissar Ahamed K.S
Chairman



Quality Policy Statement

The Aim of Nash Engineering FZCO as a leading manufacturer and supplier of Process Equipment's, Pressure vessels, Heat Exchangers, Skid Mounted Packages, Structures, Pippings, works is committed to providing the full range of services to Oil & Gas industries, Power plants, Chemical & Fertilizers Plants, Desalination & Water Treatment Plants and Steel Infrastructures for numerous sectors. Promising the best possible quality in accordance with international standards.

Achieve customer satisfaction by meeting their expectation with the specification, by delivering on time at competitive price.

Create an environment to work as a team and set quality objectives, Targets aimed at continual improvement.

Meet statutory and regulatory requirement related to the products.

All staff are trained and understand & the implants the quality policy.

The top management will periodically review the Quality Policy and objectives to ensure the continuous improvement as per the international standards

We believe:

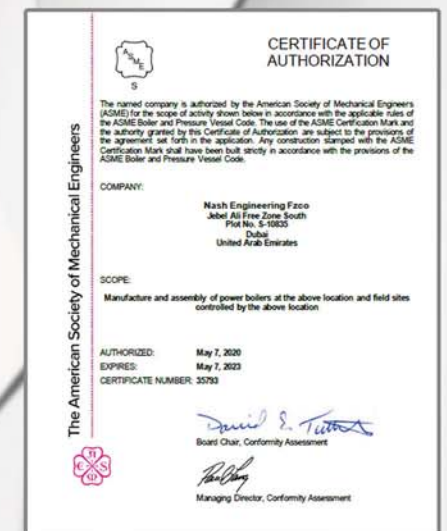
Quality is more than a policy - it's our whole way of doing business.



“Benefit from our Vast Experience, Broad Capabilities & Quality Workmanship”



Certifications :



Our Activities on Heat Exchangers :

- * Mechanical & Thermal Design Calculations
- * New Manufacturing of all type Heat Exchanger & Louvers
- * Re-Tubing
- * Chemical Cleaning & Circulation
- * Refurbishment
- * Re-certification
- * Survey & Inspection services
- * Shutdown activities
- * Onshore & Offshore Skilled Manpower supply
- * Supply of fasteners, Spares & testing accessories

SHUTDOWN / TURNAROUND SERVICES:

Nash Engineering FZCO Projects Division specialized in undertaking plant turnarounds & shutdown. We specialize in overall project planning and Engineering, Material procurement, Manpower Sourcing and Allocating, Site coordination and Execution.

Nash Engineering FZCO follow a time tested exceptional Quality Management System. Our experienced inspection team carries out a thorough check up of the entire plant leaving a detailed and informative Quality Dossier on plant's health and future recommendations.

With a talented and well-managed workforce spread across the Middle East, we are confident in taking up any type of maintenance and servicing challenge requirements from our clients. Our services are always available to our clients 24X7 within the reach. NASH has in house resources such & tube bundle extractors, Ultra High pressure water jetting units, chemical circulation skids, software supported bolt management systems makes us more reliable along with our disciplined and trained work force.

RE-TUBING:

Heat Exchangers being utilized in the Oil and Gas installations often have corrosive and viscid fluids and gases flowing through its tubes. As heat exchanger's age, their performance declines overtime, due to fouling, erosion and corrosion, thus requiring periodic refurbishment and repair. An effective and cost efficient solution is re-tubing of the exchanger.

Nash Engineering FZCO has earned a reputation of being a specialist provider of re-tubing services. The key advantage being is that it undertakes all associated works with re-tubing such as the exchanger blinding, Tube bundle extraction, the procurement and testing of the raw materials, on-site/off-site re-tubing and finally the bundle installation and equipment commissioning.

Nash Engineering FZCO is equipped with a wide range of specialized re-tubing equipment and is aided by its highly trained and experiences teams, allowing it to take any challenges and any conditions. With Nash Engineering FZCO you can be assured of a Quality and Timely completion of any projects.

HYDRO JETTING:

Nash Engineering FZCO provides a variable high pressure water jet system. The diesel drive high pressure unit delivers an operating pressure up to 40,000 environments. High Pressure water jetting is highly effective and time-cost efficient method of cleaning that provides immaculate results. Hydro jetting can be used to provide a wide range of cleaning solutions such as the cleaning of heat exchanger tubes, coolers, Tanks, Process Internals and pipelines. Our Hydro jetting machines can be fitted with a number of various accessories like Stoneage nozzles, Flexible Lance, Rigid Lance, and High Pressure Gun. All of our hydro jetters are qualified and highly experienced in the trade. Blasting water with Hydro jetting equipment at extremely high pressures is not without risks and hazards, but with our HSE procedures and protective equipment we manage to minimize the associated risks, guaranteeing a safe working environment for all.



CHEMICAL / FOAM CLEANING:

An effective and time-efficient solution, to removal fouling, with minimal access required to an exchanger's internals is chemical cleaning. Once a heat exchanger is identified to be chemically cleaned, Nash Engineering FZCO then studies the metallurgy and the nature and extent of fouling allowing its team of experienced engineers to determine the suitable chemical cleaning agent to be circulated.

SURFACE PREPARATION & PAINTING:

Nash Engineering FZCO enjoys a dedicated surface preparation facility allowing it to undertake a range of coating, painting and blasting works. Process Equipment's operating in the corrosive environments of the processing plants both on-shore and off-shore are subject to an extreme range of harsh environmental factors which can have a detrimental effect on the equipment's lifespan if sufficient safeguards are not provided. Nash Engineering FZCO being a manufacturer and provider of such equipment's has developed an expertise in determining and implementing the necessary surface preparation solutions in a cost effective manner.

MAN POWER SUPPLY SERVICES:

We are one of the reputed technical manpower supply company in UAE focused on providing manpower supply services throughout the Middle East for the past 10 years. We are the one-stop solution for manpower supply in U A E to the Shut down works and technical services requirements for all major industrial sectors such as Oil & gas sector, Energy industries, Desalination plants, process industries & others. Our goal is to provide quality manpower supply services to all our clients. Ensure your success with our expertise in manpower supply services.





Special Tools & Machineries used for Heat Exchanger manufacturing Process



Electrical & Diesel Operated Hydro Jetting Machines upto 40,000 PSIG

Flexible & Rigid Lancing



Fiber Laser Jet Cutting Machine



Tube Bundle Extractor



Tube Expanders



Grooving & Trimming tool



Tube Puller



Int. Tube Cutter



Testing Pumps

Types of Heat Exchangers we handles with :

- * Shell and tube heat exchanger
- * Plate heat exchangers
- * Fin Fan Coolers
- * Plate fin heat exchanger
- * Parallel-flow heat exchanger
- * Counter-flow heat exchanger
- * Finned and Unfinned heat exchanger
- * Fluid heat exchangers
- * HVAC Air Coils
- * Helical-coil heat exchangers
- * Spiral heat exchangers
- * Evaporator & Economizer coils
- * U Tube Bundles
- * Floating & Fixed Heat Tube Bundles



Material Grades :

We deal in almost all hard to find material and we keep on exploring new supplier and sources to add our material portfolio

ASTM A179 / ST 35.8/I DIN 17175 P235 GH TC1 EN 10216-2 / ASTM A192 / ASTM A 334 Gr. 1 /	
ASTM A 334 Gr. 6 / ASTM A 199/ A 213 T5 / ASTM A 199/ A213 T9 / ASTM A 199/ A 213 T11 /	
ASTM A214	- Carbon steel / Low Carbon / Low Alloy materials
ASTM B127/B164/B165/B366/B564	- ALLOY 400
ASTM B166/B167/B168/B366/B564	- ALLOY 600
ASTM B366/B443/B444/B446/B564/B705	- ALLOY 625
ASTM B366/B407/B409/B408/B564	- ALLOY 800 H-HT
ASTM B366/B423/B424/B425/B564/B705	- ALLOY 825
ASTM B333/B435/B366/B564/B619/B622	- ALLOY C276-ALLOY B2-C22
ASTM B366/B462/B363/B568/B729	- ALLOY 8020 (Alloy 20)
ASTM A182/A790/A815/A928 Gr. F51	- UNS S31803
ASTM A182/A790/A815/A928 Gr. F53	- UNS S32750
ASTM A182/A790/A815/A928 Gr. F55	- UNS S32760-Zeron 100 Gr F 60
ASTM B265/B861-2/B62-2/B363	- WPT2
ASTM B265/B861-7/B62-7/B363	- WPT7
Eemua 144/145/146 UNS C70600/7060X	- CuNi 90/10 - CuNi 70/30
ASTM A182/A312/A358/A403-304(L-H)	- SS 304/L
ASTM A182/A312/A358/A403-310(S)	- SS 310
ASTM A182/A312/A358/A403-316(L-Ti)	- SS 316/L
ASTM A182/A312/A358/A403-317(L)	- SS 317
ASTM A182/A312/A358/A403-321(H)	- SS 321
ASTM A182/A312/A358/A403-347(H)	- SS 347
ASTM A182/A312/A358/A403-F44	- UNS 31254 SMO254
ASTM A182/A234/A335/A691 P(F)1	- Alloy Steel P1
ASTM A182/A234/A335/A691 P(F)5	- Alloy Steel P5
ASTM A182/A234/A335/A691 P(F)9	- Alloy Steel P9
ASTM A182/A234/A335/A691 P(F)11	- Alloy Steel P11
ASTM A182/A234/A335/A691 P(F)22	- Alloy Steel P22
ASTM A182/A234/A335/A691 P(F)91	- Alloy Steel P91
Admiralty Brass EN 12451	- CuZn28Sn1As ASTM B111 C44300
Aluminum Brass EN 12451	- CuZn20Al2As ASTM B111 C68700



MAJOR HEAT EXCHANGER REFERENCES

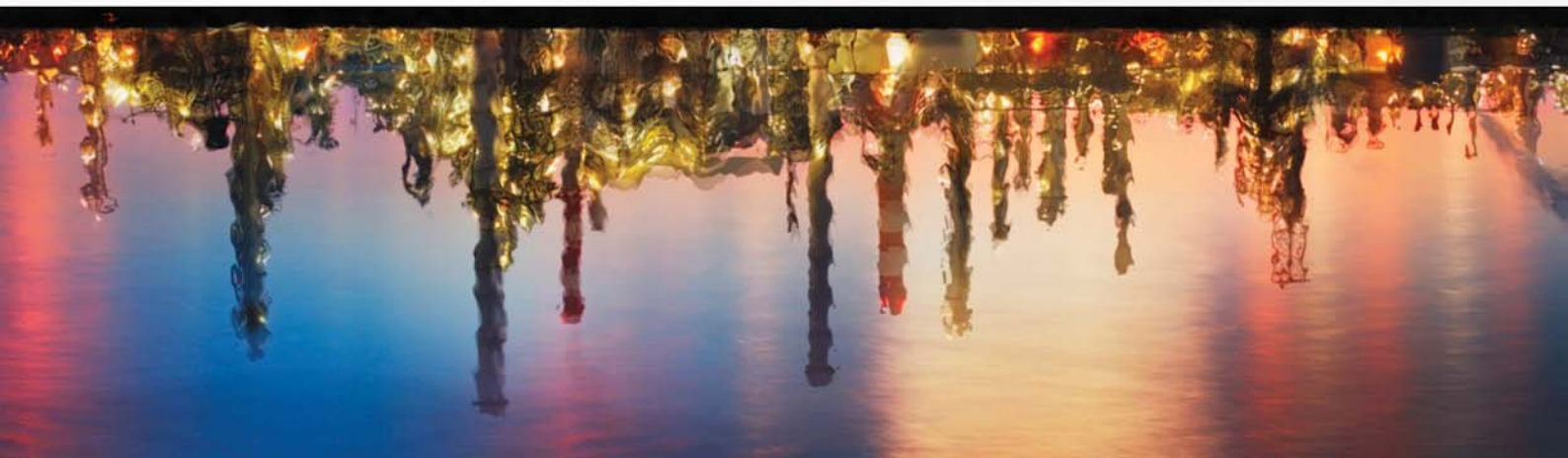
Sl. No	Client	Job Description	Year
1	ADNOC Offshore	To Refurbish PT air Cooler 43600280 removed from R101-B1	2019
2	ADNOC Offshore	ZWSC PGB GT-1 Lube Oil HE (66587664) to be refurbished	2019
3	ADNOC Offshore	To be fabricate ZCSC-GT-B Alternator air cooler - 6 channel head covers, 6 End covers, 4 Channel Head-1, 4 Channel Head-2	2019
4	ADNOC Offshore	Louvers for GPF Lube Oil Coolers (80+3)	2019
5	ADNOC Offshore	ZWSC-GG2: T120 Spare Components & Parts	2019
6	ADNOC Offshore	To Refurbish ZCSC-WIP De Motor Cooler (HE) & Non De Motor Cooler (HE)	2019
7	ADNOC Offshore	Replacement of HAP Dry Gas Scrubber nozzle B2 (Shutdown)	2019
8	ADNOC Offshore	T 103 Retubing of Tube Bundle 23 Tons	2019
9	ADNOC Offshore	G 130 Reurbishment Services	2019
10	ADNOC Offshore	HAP Shutdown 2019, Refurbishment of Gas Glycol Exchanger, Rich Glycol Still Condensor	2019





MAJOR HEAT EXCHANGER REFERENCES

Sl. No	Client	Job Description	Year
11	ADNOC Offshore	ZWSC-GG2 Flushing Oil Cooler T115 New Tube Bundle, Shell & Cover & Complete assembly	2019
12	ADNOC Offshore	ZWSC-GGII PT Air Cooler T109 New Shell only Fabrication: 6 Sets	2019
13	ADNOC Offshore	ZWSC-GGII-New T104 A/B Fixed Side Channel Head & Cover Fabrication: 2 Sets	2019
14	ADNOC Offshore	ZWSC-GPF to Mfg Inst comp Final Stage Air Cooler (Radiator) 3 sets	2019
15	ADNOC Offshore	Refurbishment with complete retubing of PT Air Coolers for R101 B1/B2	2020
16	ADNOC Offshore	ZWSC-GG2 New upgraded components for T104 A/B	2020
17	ADNOC Offshore	Repair of Deflected Plate of Heat Exchanger of Column 401 @ Das Island	2020
18	ADNOC Offshore	ZWSC-GT-2 Lube Oil Coolers Complete retubing	2020
19	ADNOC Offshore	221335 ; To carry out the overhauling of heat exchangers at Zirku	2020
20	ADNOC Offshore	ZWSC-GT-2 T 103 TB Cradle Fabrication	2020





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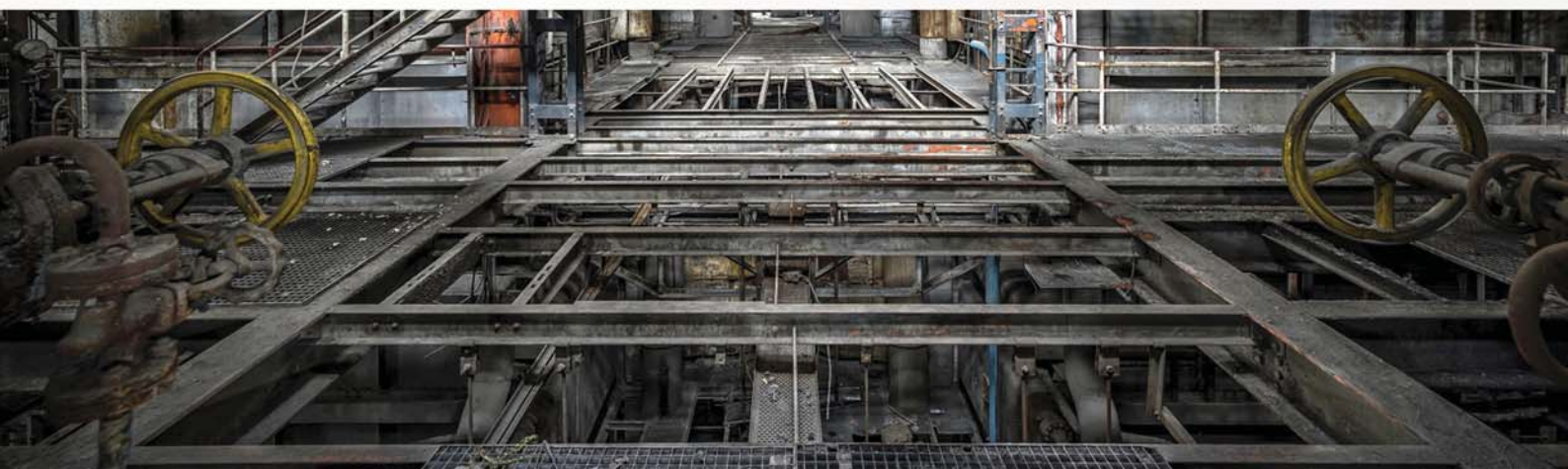
Sl. No	Client	Job Description	Year
21	ADNOC Offshore	ZWSC GG2 ROTARY SCREW COMPRESSOR HE -For Repair	2020
22	ADNOC Offshore	ZWSC - GG2 - R 120 Air Coolers For Propane Compressor Motor (1 for Refurbishment & 1 For Retubing)	2020
23	ADNOC Offshore	Inspection & Refurbishment of Deisel Engine Jacket Water Cooler for USEAP Fire Pump	2020
24	ADNOC Offshore	ZWSC GG2 -Fire Water Pumps - P 170 A/B/C/D/E- Lube Oil Cooler - Loc. 353-P-170A/B/C/D/E - WO 27740882, Like to Like Tube Cooler	2020
25	ADNOC Offshore	ZSSC PGP - GT A PT Air Cooler TB & Shell: Refurbishment	2020
26	ADNOC Offshore	ZWSC WIP - Module 2 Lube Oil Cooler (B): Refurbishment	2020
27	ADNOC Offshore	*Fabricate New GT's PT Air Coolers Complete Units : 2Nos. (for ZCSC) * Fabricate New GT's PT Air Coolers Complete Units : 4Nos. (for ZWSC)	2020
28	ADNOC Offshore	ZWSC GG2 PT Air T109 Coolers for refurbishment	2020
29	ADNOC Offshore	USSC Bleed Air Cooler (7002 8163 shell & UTC 35819-Tube bundle)	2020
30	ADNOC Offshore	ZW GG2: T103 Refurbishment of Tube Bundle 43600149	2020





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Sl. No	Client	Job Description	Year
31	ADNOC Offshore	GPF Instrument Aircompressor Final Stage Air Cooler	2020
32	ADNOC Offshore	ZWSC-GG2 Refurbishment of T104 Channel Head with Covers: 2 Sets	2020
33	ADNOC Offshore	Insitu Baseline Inspection & Maintenance of USSC ABK TIP	2020
34	ADNOC Offshore	G130 Alternate Cooler for refurbishment: 3 sets	2020
35	ADNOC Offshore	T101 New Upgraded Bundle Assembly	2020
36	ADNOC Offshore	CSP Sep #2 & Uap Synthetic Oil Eliminator Coolers Refurbishment & Replacement	2020
37	ADNOC Offshore	Repair of Partition Plate of US Heat Exchangers at Das Island	2020
38	ADNOC Offshore	Refurbishment of PT Air Coolers with shell & Covers: 2 Sets	2020
39	ADNOC Offshore	Das Island - Boiler#8 tubes cleaning	2020
40	ADNOC Offshore	Refurbishment of T114 Reflex Condenser	2021





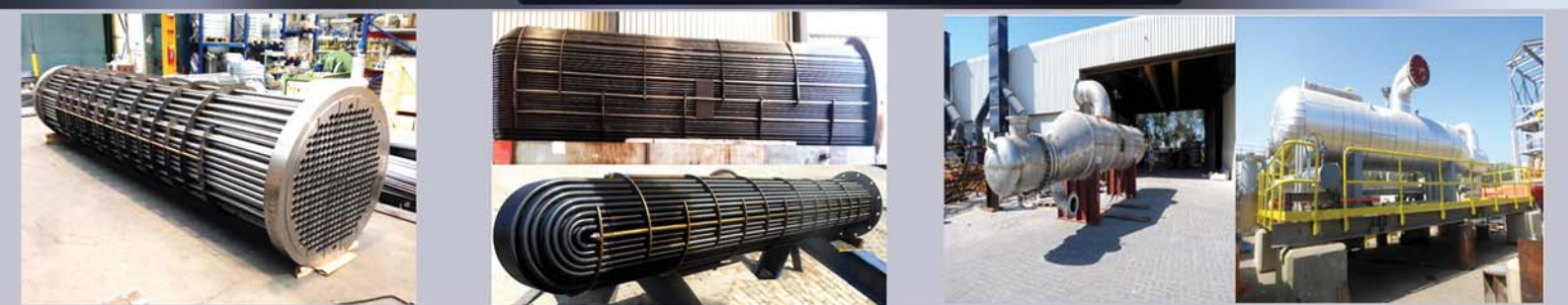
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Sl. No	Client	Job Description	Year
41	ADNOC Offshore	Refurbishment of GT-3 Alternate Air Cooler DE-43600340 & NDE-43603045	2021
42	ADNOC Offshore	Refurbishment of Alternate Air Cooler	2021
43	ADNOC Offshore	Refurbishment of T160-A Tube Bundle	2021
44	ADNOC Offshore	Refurbishment of T112 Tube Bundle	2021
45	ADNOC Offshore	Refurbishment of T103 Tube Bundle	2021
46	ADNOC Gas Processing	RE-TUBING OF INSTRUMENT AIR COMPRESSOR FIN FAN COOLER TAG NO.: (15V101 – E1A/E2A/E3A)	2021
47	ADNOC Refining	Fabrication, Testing & Supply of Tube Bundle 803-E-010 A – 1 no. 803-E-010 B – 1 no.	2021
48	ADNOC Refining	Re-Tubing of U-Tube Bundle 1670-E-001C as per the Scope of Work	2021
49	ADNOC LNG	Re-tubing of Heat Exchanger Tube (2-E-0115B)	2021





OUR HEAT EXCHANGER GALLERY





We cater to a wide array of steel product requirements across industries, including large-scale projects, with world-class manufacturing facilities and worldwide exports.



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