



Oil&Gas  
Alliance

PetrochemicalPowergen  
Processindustry

# O&G division

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## PACKAGE AND TURN-KEY APPLICATIONS

PIPING PACKAGES

SKIDS & CABINETS

GAS STATIONS TURN-KEY UNITS

OFFSHORE MODULES

PETRO CHEMICAL TURN-KEY UNITS

POWER GENERATION PLANTS

turnkeyvaluechain

# O&G division

## PACKAGE AND APPLICATIONS

PIPING PACKAGES

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GAS STATIONS TURN-KEY UNITS

OFFSHORE MODULES

PETRO CHEMICAL TURN-KEY UNITS

POWER GENERATION PLANTS

## TURN-KEY & PACKAGE INTEGRATION

TURN-KEY SKIDS & UNITS / **OFRA S.R.L.**

PIPING PACKAGES & FORGED FITTINGS / **CHERO PIPING SPA**

## SPECIAL EQUIPMENTS COMPANIES

SCRUBBERS & HEAT TREATMENT and CRITICAL ALLOYS WORKSHOP / **NICRO SPA**

PRESSURE & CRYOGENIC VESSELS, REACTORS, COLUMNS / **DELTA ENGINEERING SRL**

MULTIDISCIPLINARY ENGINEERING SERVICES / **TECNO & TEAM ENGINEERING SRL**

CARBON STEEL WORKSHOP / **D.M. SRL**



INTEGRATION: **OFRA SRL**  
 CONTRACTOR: **HALDOR TOPSOE A.S.**  
 CLIENT: YPF – ARGENTINA DESCRIPTION: N.1 6000Nmc/h  
 HTCR  
 Hydrogen production plant  
 Destination: Mendoza – Argentina Year:  
 2011  
 Activities: Detailed engineering, project management,  
 procurement and construction (executed in JV with Benelli O&G)





Is the Italian partnership between highly specialized manufacturers in turn-key O&G plant engineering and construction, piping packages and special equipments, allied to supply international EPC Contractors in high demanding worldwide projects

#### About

Founded in 2017, O&G Alliance serves the leading EPC Contractors and Oil companies worldwide counting on the partnership between its nine Italian partner companies, highly well-known in the piping packaging, plant engineering and turn-key construction.

#### The Alliance

Highly specialized and independent Italian companies, partnering to provide joint engineering integration and turnkey construction in piping packages, skids up to 30 meters and 200 tons, on-shore gas stations, pressure vessels and heat treatment special equipments, with 40 years of solid references in the O&G environments.

#### The integration Yards

Beside every company's workshops and manufacturing yards, O&G Alliance has its registered office in Modena and integration workshops at OF.RA Srl from Ravenna City, Alliance's EPC assembly company, based at the industrial city port on upper Adriatic Sea; and Chero Piping Spa, critical piping package integrator and Alliance co-founder, based in the closest Carpaneto Piacentino (city of Piacenza, North Italy). The Alliance coordinates the joint engineering and construction stages able to provide turn-key projects procurement, prefabrication, assembly, commissioning, maintenance.

# Turn-key valuechain



INTEGRATION: OFRA SRL  
CONTRACTOR: **DAEWOO-FLUOR JV**

CLIENT: SHELL NIGERIA

DESCRIPTION: N.2 TEG gas dehydration packages, composed contactors dia. 2.7 x h 10.7 m. thick. 100 mm, glycol regeneration package with electrical heaters, glycol pumps flow rate 19.400 kg/hr - Dew point 0°C @ 90 bara. - Gas flow rate 14.800.000 Sm<sup>3</sup>/day each

Destination: GBARAN UBIE - NIGERIA

Year: 2007

Activities: Engineering, project management, procurement and construction (JV with Benelli Ravenna S.p.A.)

# O&G application





# Oil & gas projects

# Integrated supply

- On-offshore modules & packaged units construction and assembly
- Assembly and prefabrication of packaged units including E&I system
- Platform & shelving steel structures
- Safety infrastructures and storage platforms
- On-site maintenance services
- Design and manufacture of pressure vessels to PED Directive or ASME Code
- Manufacture mono or multidisciplinary skid mounted plant and equipment
- Manufacture piping in carbon, alloy steel, stainless, duplex, superduplex steel, aluminium
- Oleodynamics

- Welding processes, Steel structures, Boilers and pressure vessels
- Assembly and welding of carbon steel, stainless steel, inconel and alloy piping, superduplex steel, aluminium
- Prefabrication and assembly of units and E&I system
- Structural frames for offshore and well drilling equipment
- Assembling system and general and specific machines

CONTRACTOR: UOP LLC

CLIENT: Kiewit-National Grid

DESCRIPTION: 3bed Separiv Unit

Destination: Rhode Island Year: 2020  
Activities: Construction and assembly



# Piping packages



Offshore and Subsea



Insulating joints



Critical environments



Specialty products



# Gas-station

INTEGRATOR: OFRA SRL  
CONTRACTOR: DAEWOO E&C

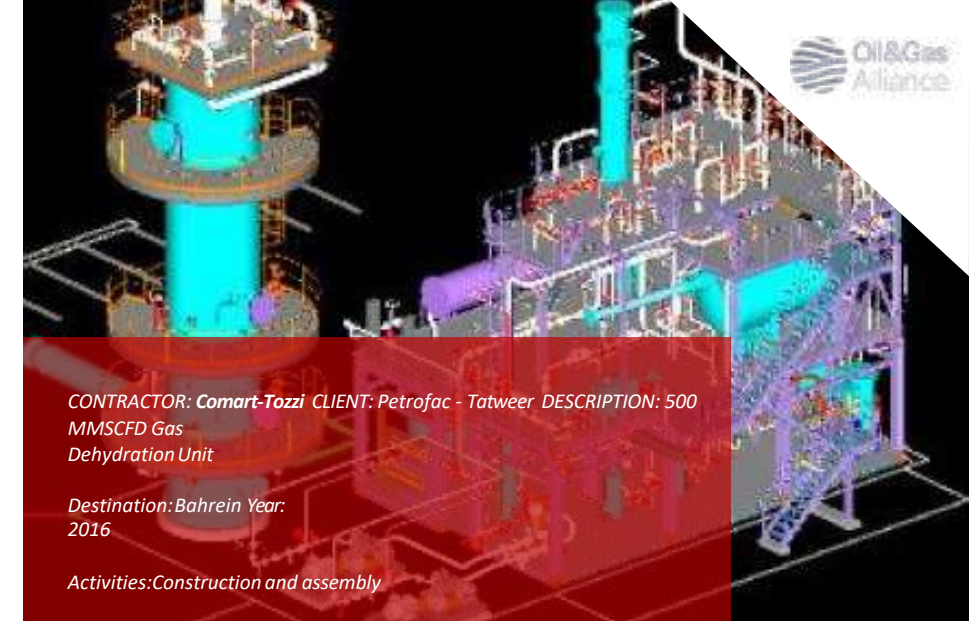
CLIENT: NAOC - NIGERIA

DESCRIPTION: N.1 TEG Gas dehydration package. Gas flow rate 300MMSCF/d

Destination: Ogbainbiri flowstation - Nigeria

Year: 2009

Activities: Detailed engineering, project management, procurement and construction (executed in JV with Benelli O&G)



CONTRACTOR: Comart-Tozzi CLIENT: Petrofac - Tatweer DESCRIPTION: 500 MMSCFD Gas Dehydration Unit

Destination: Bahrain Year: 2016

Activities: Construction and assembly



CONTRACTOR: OIEC  
CLIENT: IOOC  
DESCRIPTION: Gas dehydration and mercury removal unit. Gas flow rate 4 MMNMC/d

Destination: Sirri Island - Iran Year: 2009

Activities: Process, engineering, project management, procurement and construction (executed in JV with Benelli O&G)



CONTRACTOR: CHAGALESH  
CLIENT: LAVAN REFINERY  
DESCRIPTION: LPG molecular sieves dehydration package, with regeneration and separation system. Gas flow rate 8000Kg/h

Destination: Lavan Refinery - Iran Year: 2007

Activities: Process, engineering, project management, procurement and construction



# Off-shore



Off-shore mobile 3000HP skid located in Caspian Sea "Bulla Deniz" field



Living deck, Heli platform, Mud Mats, Piles Sleeves and Grouting System / AGIP Lybia

The general orientation in the design of modern systems is aimed at establishing assemblies of well-defined process parts pre-installed on transportable structures called skids or packages, depending on the different choices and technical needs of the process. The practicality of prefabrication and on-site installation gives countless advantages, including a more economical, functional and faster manufacturing system. Together with the numerous and important curricular references, place our Group among the most important companies in the sector

**Engineering** // the Alliance companies background allows even nowadays to be able to continuously make available a whole series of engineering activities qualitatively compliant with the standards of the sector, having great experience in the application of the plant engineering methodology of the chemical plants in general, due to the presence of the historical and most important international companies of the chemical pole, located in the operational areas of our companies.



Off-shore Floating drilling HH300 SOCAR AQS Caspian Sea



# Petrochem

**Materials & Equipment** // The use of raw materials with high corrosion resistance Allianc Companies suitable for a wide variety of applications in process plants within chemical, petrochemical, water, oil and gas industries. Our group provides a full range of piping & packages units for process plants, where corrosion resistant alloy steel are necessary to withstand extreme temperatures and high-pressure environments.

**CONTRACTOR:** GEA  
**CLIENT:** Linde – Simplot LLC  
**DESCRIPTION:** Boil Off Unit-Ammonia Refrigeration plant  
**Destination:** Rock Spring – WY- USA Year: 2015  
**Activities:** Project management, procurement and construction



**CONTRACTOR:** Lewa - Nikkiso  
**CLIENT:** Petrofac – Ithaca Proj.

**DESCRIPTION:** Chemical Injection Package Destination: Stella Dev.Area – North Sea Year: 2013  
**Activities:** Project management, procurement and construction



**CONTRACTOR:** SADEMI –  
**AIR LIQUIDE**

**CLIENT:** ARLIQUIDO  
**Lda - Portugal**  
**DESCRIPTION:**  
 Process skidsAan M for  
 hydrogen production  
 plant  
**Destination:** Estarreja - Portugal  
**Year:** 2008

**Activities:** Detailed engineering,  
 project management, procurement  
 and construction

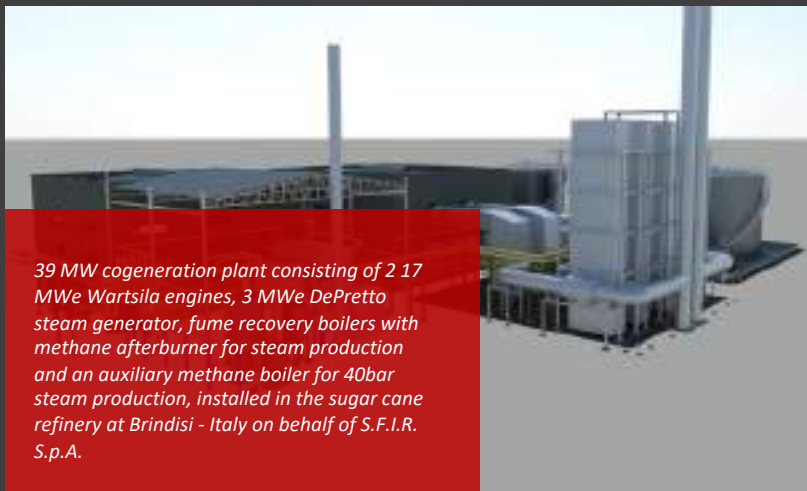


**CONTRACTOR:** GEA Refr. Italy  
**CLIENT:** Linde  
**DESCRIPTION:** Ammonia

**Refrigeration Unit**  
**Destination:** Sadara –Al Jubail - KSA Year: 2013  
**Activities:** Project management,  
 procurement and construction



# Powergen



39 MW cogeneration plant consisting of 2 17 MWe Wartsila engines, 3 MWe DePretto steam generator, fume recovery boilers with methane afterburner for steam production and an auxiliary methane boiler for 40bar steam production, installed in the sugar cane refinery at Brindisi - Italy on behalf of S.F.I.R. S.p.A.



83 MW cogeneration plant consisting of 2 10 MWe Jenbacher engines, 3 21 MWe gas boilers and 6 213 m<sup>3</sup>e storage tanks. Tor di Valle plant in Rome for ACEA Produzione S.p.A.



Many skills have been developed in the field of cogeneration and trigeneration, through the continuous engineering e supply service to exclusive companies specialized in the development of this type of plant. The continuation specialization coming from the "Oil & gas" sector has determined a series of internal company dynamics and policies, aimed at specializing on specific fields of powergen, embracing cogeneration, trigeneration and chemical products.

"Heat Recovery System - EAF" heat recovery plant at Acciaieria ARVEDI in Cremona.



# Equipments



*EGCS Marine Exhaust scrubber*



*LG Coalescers + Platforms  
In SA-516 Gr.70, H = 6.700 mm, OD = 1600, Thk = 60 mm  
For Storengy – Stablack Gas Storage Project Phase II (UK)*



*Gas Dehydration Inlet Coalescer + Platforms  
In SA-516 Gr.70 + Clad in SA-240 316L, H = 9.030 mm, OD = 2050, Thk = 72+2 mm  
For SNC Lavalin / Sonatrach - Rhourde Nouss Project (Algeria)*



*Furnaces, belts, special alloy cworkshop*



*Nr. 1 Tail Gas Drum  
in SA-516 Gr.70, L = 30.000 mm, OD = 3.875 mm, Thk = 15 mm  
For UOP (process licensor)*

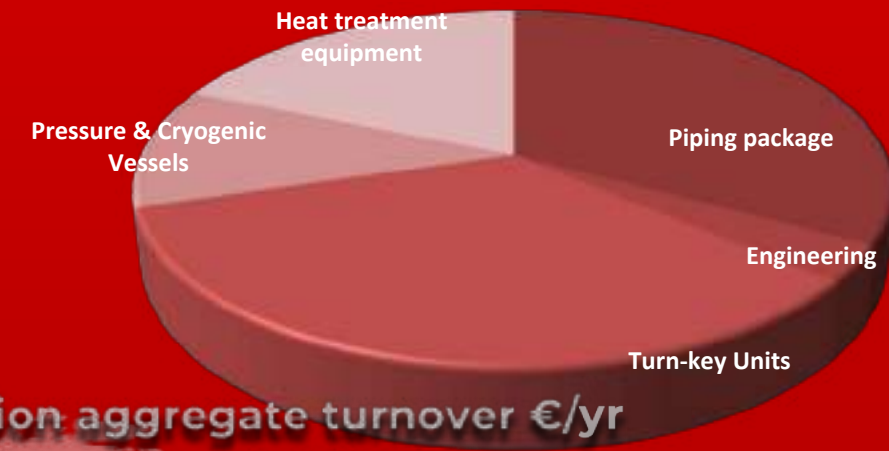


# O&G companies





# Allied companies



O&G Division aggregate turnover €/yr  
**65.000.000**

**CHERO PIPING**

Piping packages

**NICRO**  
LAVINAZIONE, TRATTAMENTO TERMICO, SCRUBBER

Scrubbers, heat & exhaust treatment equipments



Pressure & cryogenic vessels

**OFRAE**

Turn key Gas units , skids, modules Integration



**Tecnoteam**  
INDUSTRIAL ENGINEERING

Multidisciplinary Engineering

**TEAM  
ENGINEERING**





CONTRACTOR: **UOPN.V** CLIENT: KNPC DESCRIPTION: 3x N2 treatment and PSAUnit

Destination: Kuwait Year: 2017

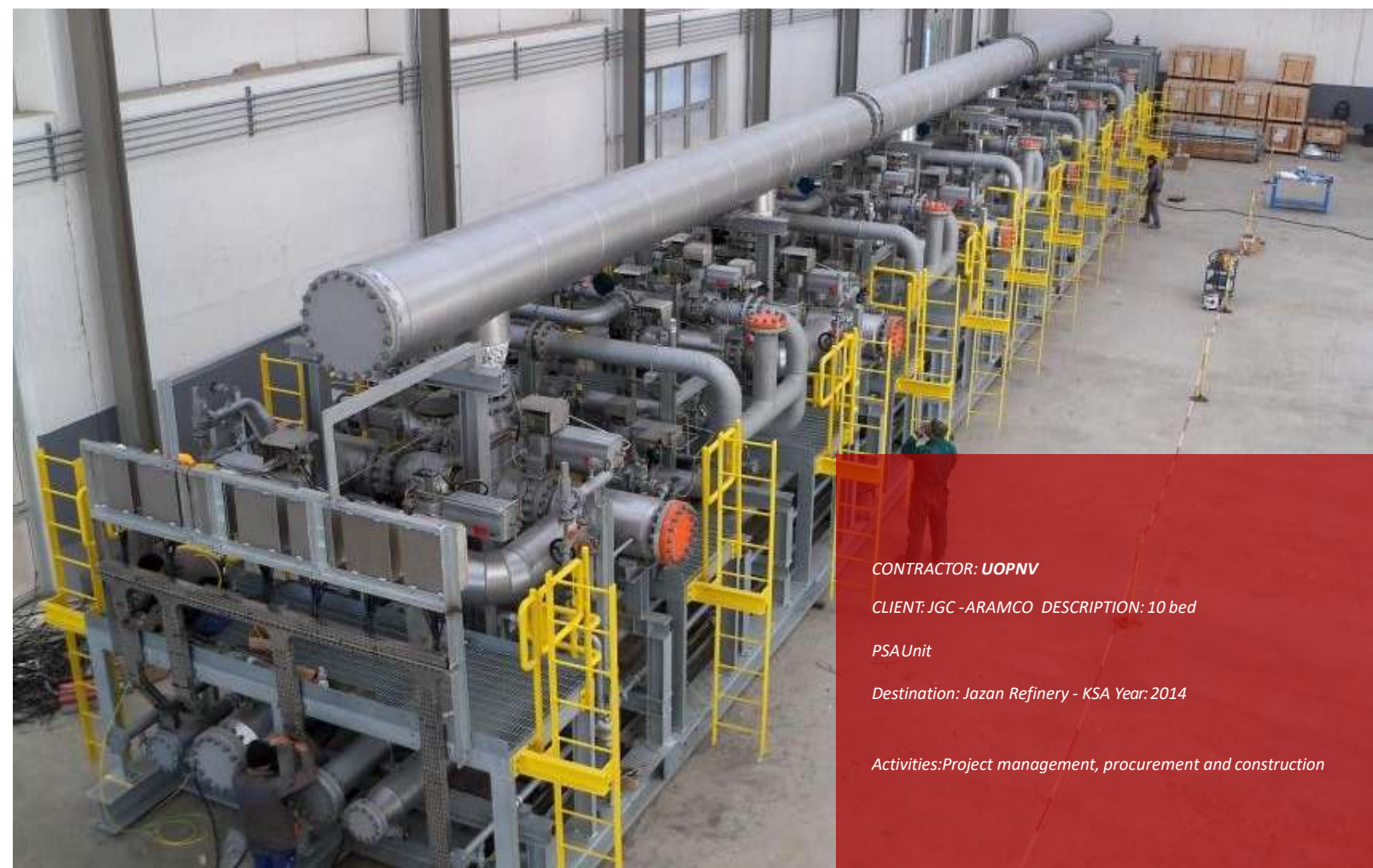
Activities: Construction and assembly

CONTRACTOR: **UOP LLC**  
CLIENT: Pemex - Mexico  
DESCRIPTION: 2 x 10bed  
PSA+  
1x 6bed PSA Valve skids

Destination: Refinería de Dos Bocas  
- Mexico

Year: 2021-22

Activities: Procurement,  
construction, assembly and  
testing



CONTRACTOR: **UOPNV**

CLIENT: JGC - ARAMCO DESCRIPTION: 10 bed  
PSAUnit

Destination: Jazan Refinery - KSA Year: 2014

Activities: Project management, procurement and construction

## Mechanicals

The Mechanical and Maintenance Division specializes in ordinary and extraordinary maintenance and assistance on construction sites, both on Italian and foreign soil, for lifting machines of all types, starting from workshop overhead cranes and hoists, up to port, naval and platform cranes, passing through earthmoving machinery.



CONTRACTOR: Baker Hughes – N. Pignone  
CLIENT: Al Bilal Group Ltd – Majnoon Field - Iraq DESCRIPTION: Local Control Panel  
Destination: Iraq

Year: 2022

Activities: Project management, design, procurement, construction and architectural assembly, E&I installation.



CONTRACTOR: Air Liquide E&C  
CLIENT: KNPC  
DESCRIPTION: Nitrogen Generation plant including Cold Box and Warm skids  
Destination: Kuwait

Year: 2017  
Activities: Construction and assembly

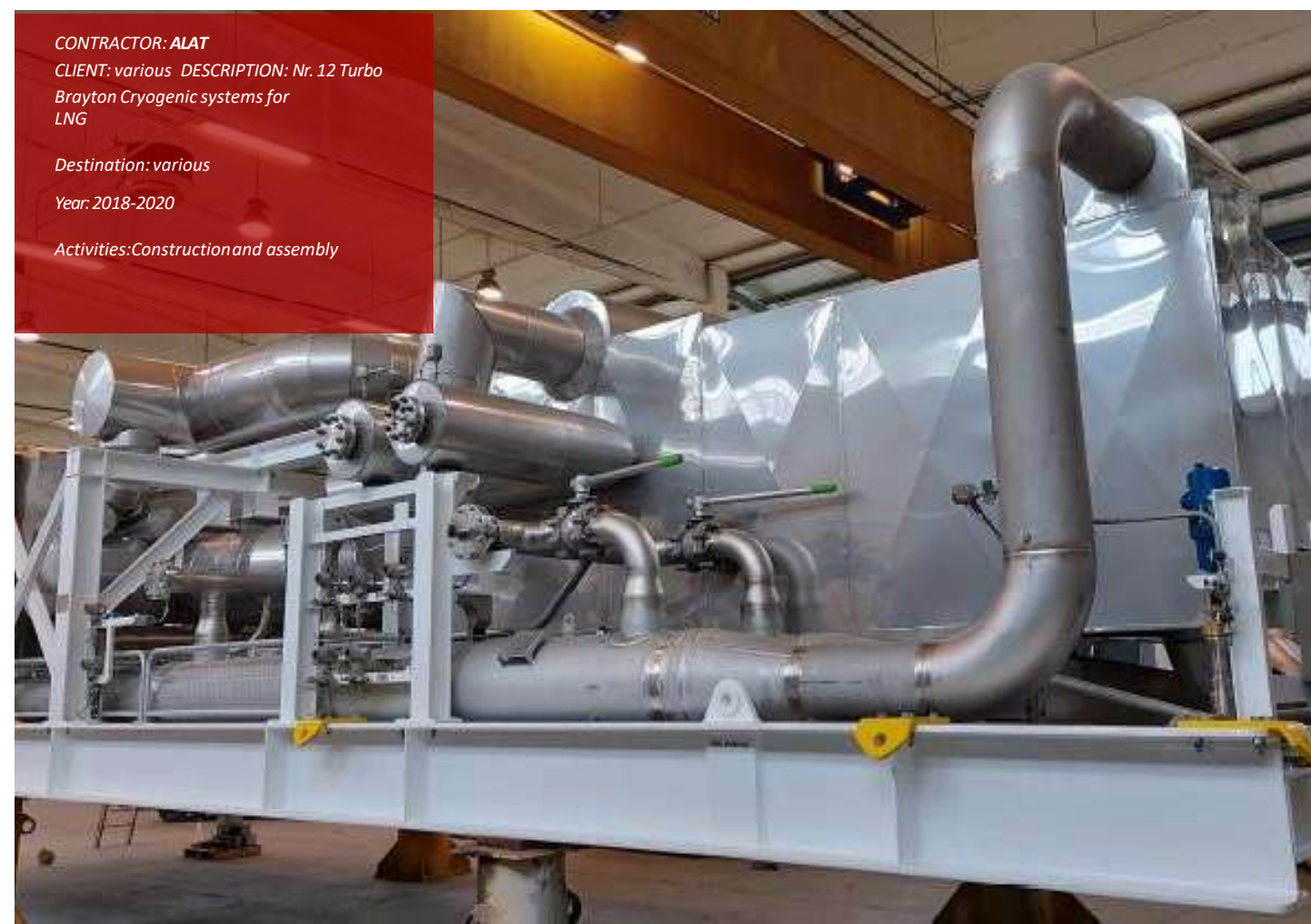


CONTRACTOR: ALAT  
CLIENT: various DESCRIPTION: Nr. 12 Turbo Brayton Cryogenic systems for LNG

Destination: various

Year: 2018-2020

Activities: Construction and assembly



## Construction

The Engineering and Construction Division is dedicated to the design, supply and construction of package plants for the chemical and petrochemical industry, such as natural gas treatment plants, hydrogen filtration and purification plants, gas and cryogenic compression plants, chemical injection plants, plants for the capture and conversion of CO<sub>2</sub>. All systems are completely built and tested in its own workshop, and are then shipped to the site ready for installation. OF.RA. also designs and manufactures Local Control Cabins certified for fire resistance according to the main international standards, equipped with air conditioning, gas detection and fire prevention systems, suitable for installation into classified areas.





CONTRACTOR: **UOPN.V**  
 CLIENT: *Marathon Oil Co.* DESCRIPTION: *Polysep Membrane Unit*  
 Destination: *Texas* Year: *2019-2020*  
 Activities: *Construction and assembly*

• **OF.RA SRL** / Gas units , skids, modules Integration, turnk-key plant stations, Skids and modules up to 30 m / 200 tons

- ❑ Integrated systems for the treatment and separation of gases and oils / Package systems for the production and separation of technical gases
- ❑ Cryogenic systems for LNG treatment
- ❑ Cabin control structures and advanced instrumentation for measurement systems
- ❑ Equipment, such as reactors, columns, liquid and process separators, direct flame heaters, energy recovery units, heat exchangers
- ❑ Energy production plants, like cogenerators, recovery units, biomass boilers, burners and afterburners

## Energy

The Energy Division was created for the design, construction and marketing of thermal equipment and systems in the industrial sector. The applications cover the generation of heat, heat recovery, cogeneration and gaseous waste treatment through thermal oxidation. Some of our main products for gas and liquid heating are industrial ovens and boilers, both classic and recovery and biomass, burners, heat exchangers and indirect generators. As for energy recovery and production, we are able to deliver turnkey biomass cogeneration plants, waste incineration plants and heat recovery plants.



CONTRACTOR: **Air Liquide E&C**  
 CLIENT: *Arcelor Mittal* DESCRIPTION: *8bed PSA unit*  
 Destination: *Gent - Belgium* Year: *2020*  
 Activities: *Construction and assembly*



OFRA

Oil & Gas  
Alliance





# CHERO PIPING



• **CHERO PIPING SPA** / Pipelines packages  
(piping, forged fittings, valves)

- ☐ Forged fittings
- ☐ Branch outlets
- ☐ Heavy wall fittings (Tees, Wyes, Lateral Tees)
- ☐ Customs designed flanges
- ☐ (anchors, orifice, swivel, misaligned)  
Nozzles (flanged and not flanged)
- ☐ Forged pipe
- ☐ Mechanical forged components Insulating  
joints (monolithic and flanged) Cladding

## Power Generation

Power Generation:  
Supply of critical  
Forged components for  
High Temperature/High  
Pressure flow  
applications and  
subject to Creep. Low  
and Chrome-Moly  
Alloy (F11, F22, F91-  
F92...) applications.





# CHERO PIPING



## Offshore and **Subsea**

Decades of offshore experience in design, testing and manufacturing of components such as Lateral Tees, Forged Barred Tee, slip on and weld on Buckle Arrestors, Swivel flanges, Anchor flanges. Typical use of High Yield Steel and Duplex/Super Duplex Material.

### Forged fittings

ASME B16.11 BS 3799.  
finished products in carbon, low temp, low alloys and stainless-steel materials. Grades such as duplex, super duplex, nickel



## Specialty products

Desoigned for critical applications like Subsea, Thermo-Power Plants and Urea Plants. Among those: Heavy wall fittings (Tees, Wyes, Lateral Tees); Custom designed flanges (Anchors, Orifice, Swivel, Misaligned);Nozzles (flanged and not flanged);

Chero Piping manufactures and stocks self-reinforcing set-on Branch Outlets in adherence to MSS-SP97 industry standard, in both 90° and inclined configurations. Fittings are available in butt weld, socket or threaded ends. Chero Piping can design project specific Branch Outlets as well as set in Insert Branch Outlets in adherence with the most stringent industry Codes (i.e. ASME

B31.3, B31.1, B31.4, B31.8, EN13480, Div. VIII etc.). Our Branch Outlets are manufactured in a complete range of Carbon Steel, Stainless Steel, Duplex and Super Duplex Stainless Steel, Chrome Alloys, Nickel Alloys and other metallic materials. Flanges





# CHERO PIPING



## Pipeline

Insulating Joints (monolithic and flanged), Inserted and Set on Branch fittings (90° and inclined Olet's), Anchor flanges, welded Forged Connections, Heavy Wall forged Pipe, Weld Overlay deposit for highly corrosive fluids and environments.



## Custom made design



Monolithic Insulating Joint (MIJ) are pipeline components used to provide high electrical resistance without maintenance costs. The combination of these features makes MIJ a perfect product for cathodic and safety protection systems for gas, oil and

water pipelines. This will grant great savings on long period capital investments. MIJ are long lasting solutions against stray currents and their major effects such as cathodic corrosion and electric arc generation.

## Insulating joints





### Radiant tubes

Inside the structure, Nicro has advanced pressing/ bending machines, three different laser-cutting machines, and equipment for assembly and automated welding. As a result, the company has full control of its production without having to outsource any process.

### Flares

Made of special steel, the flare is used to burn waste gases of the production process

As a result of increasingly **stringent regulations imposed on shipping companies** that use HFO (heavy fuel oil) in order to limit pollutant emissions into emission control areas (ECA), the company has begun to gradually approach the marine sector. More specifically, **Nicro manufactures components for systems that purify the pollutants contained in exhaust gases of marine diesel engines of large ships**, such as cruise liners, cargo ships and ferries.

Established in 1976 to fabricate special equipment and fixtures for heat treatment furnaces, over the years, NICRO has expanded its market by opening up to new sectors, such as metallurgical, chemical and petrochemical, pharmaceutical and marine.





Over 40 years **NICRO** has been working in the development and fabrication of components made in **steel alloys with high nickel content**, particularly suitable for high temperatures and corrosive environments used in different industrial applications. Our **skilled technical staff** and a know-how acquired in the manufacturing of **custom-made** components enable us to help

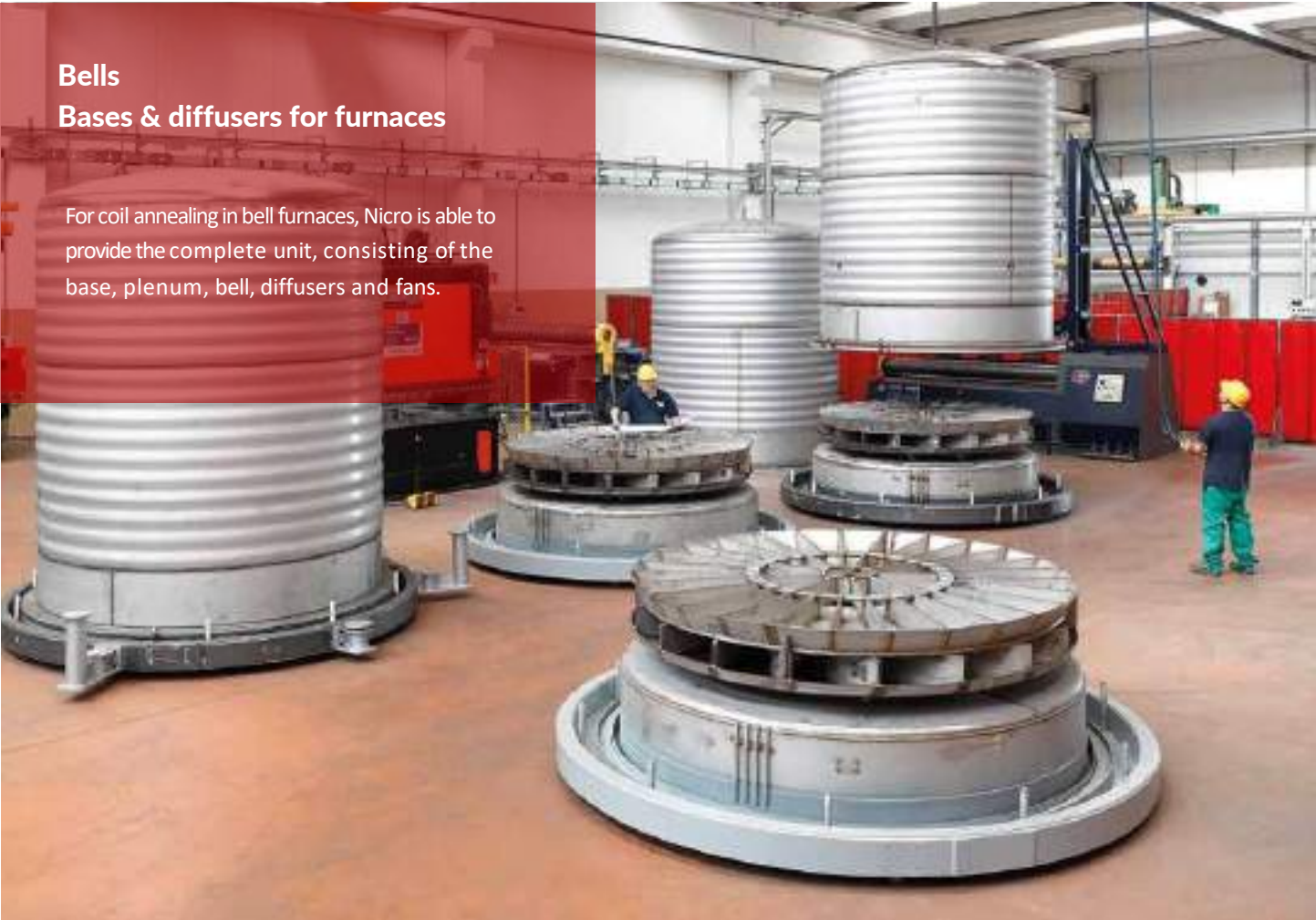
customers in the very early stage of prototyping and construction drawing development. We also collaborate to suggest modifications to reach **better performances and a long lasting life, through the re-search in alternative materials**. On the other side our technical department can do **reverse engineering** of used components without a constructive drawing.

Established in 1976 to fabricate special equipment and fixtures for heat treatment furnaces, over the years, **NICRO** has expanded its market by opening up to new sectors, such as metallurgical, chemical and petrochemical, pharmaceutical and marine.

|              |          |            |
|--------------|----------|------------|
| AISI 309     | W.1.4828 | UNS S309   |
| AISI 310     | W.1.4845 | UNS S310   |
| AISI 310s    | W.1.4845 | UNS S310   |
| AISI 321     | W.1.4541 | UNS S321   |
| Alloy 330    | W.1.4864 | UNS N08330 |
| Alloy 600    | W.2.4851 | UNS N06600 |
| Alloy 601    | W.2.4851 | UNS N06601 |
| Alloy 602    | W.2.4833 | UNS N06025 |
| Alloy 800H   | W1.4876  | UNS N08810 |
| Avesta 253MA | W.1.4835 | UNS 530815 |

### Bells Bases & diffusers for furnaces

For coil annealing in bell furnaces, Nicro is able to provide the complete unit, consisting of the base, plenum, bell, diffusers and fans.







## Marine scrubbers

These systems are specifically designed to remove SOx (sulphur oxides), in order to control the emissions of the various pollutants in the air and in water and to help lower the levels of sulphur dioxide, hydrocarbons, heavy metals, carbon dioxide, soot and ash.



## Heat treatment & furnaces

Over 40 years in the development of steel alloys components with high nickel content, suitable for high temperatures and corrosive environments





Formerly located in its historical headquarter in Via Sabbio 93, Dalmine (Italy) since 1981, starting from middle of 2016, Delta Engineering and related subsidiaries move to a brand-new plant located in Via Bastone 148/150, Dalmine (Italy).

Activities are developed in a 30.000 sqm area, which includes main office building and Nr. 3 workshops:

- 7.000 sqm of Covered Area for Carbon Steel;
- 2.000 sqm of Covered Area for Stainless Steel;
- 1.000 sqm of Covered Test Area;
- 700 sqm of Offices Area;
- 20.000 sqm of Open/Uncovered Area.

## Filters

*Nr. 1 Gas Dehydration Inlet Coalescer + Platforms  
In SA-516 Gr.70 + Clad in SA-240 316L, H = 9.030 mm, OD = 2050, Thk = 72+2 mm  
For SNC Lavalin / Sonatrach - Rhourde Nouss Project (Algeria)*



**PRESSURE VESSELS MANUFACTURING: OUR CORE BUSINESS SINCE THE 80'S**  
Delta Engineering is able to perform in-house mechanical design, calculation and all related manufacturing and testing activities of the following Pressure Vessels:

- High and Low Pressure Spherical / Horizontal / Vertical Dampners;
- Pig Launching and Receiving Traps;
- Indirect Water Bath Heaters;
- Deaerators;
- Induced gas flotation (IGF);
- Combustion Chambers and Burners;
- Reactors;
- Columns;
- Cryogenic;
- Housings for Cartridge / Basket Filters;
- Housings for Steam Separators;
- Housings for Double Barrel Separators;
- Housings for Three-phase Separators;
- Atmospheric Tanks.

Thanks to Stamp "U2" certification, Delta Engineering is able to cover high pressure applications where relevant thickness (up to 200 mm) is involved.





N°21 Heat Exchangers HAIRPIN type (Various Sizes)  
MOC: Carbon Steel / SS321 / H2 Service / UOP licensed For Jebel Ali Refinery Expansion Project - Technip FMC / ENOC

## Shell & Tube Heat Exchangers

- Carbon Steel for Low and High Temperatures
- Austenitic Stainless Steel
- Duplex and SuperDuplex
- Nickel and Copper-nickel Alloys
- Low Alloys and High Alloys Steel
- Hastelloy and Incoloy
- Carbon Steel base Cladded
- Stainless Steel base Cladded







- ISO 9001:2008
- ISO 14001
- ISO 18001
- 
- Designator “U” – Certified by ASME
- Designator “U2” – Certified by ASME
- Designator “S” – Certified by ASME
- Designator “R” – Certified by ASME
- NB Authorization to Register
- 
- CE Marking acc. to PED 2014/68/EU
- 
- ISO 9001:2008 – Certified by API
- API Specification Q1 – Certified by API
- API-12K Monogram – Certified by API
- API-12J Monogram – Certified by API



## Pressure Vessels

N°4 HP Accumulator for Hydraulic Pressure  
In SA-765 Gr. IV, L = 12.700 mm, OD = 1.800 mm, Thk = 150 mm  
For Ratmani Metals & Tubes Limited – Gujarat - Danieli Breda - Ratnamani







## Thermal Deaerators

Nr. 3 Deaerators  
Drum L = 7925 mm, OD = 2528 mm, Thk = 14 mm + Tower 2000x4115  
For Macchi/ AMEC/ NEOS - Chocolate Bayou Cogen Project (USA)

PROCESS DESIGN OF:

- Shell & Tube Heat Exchangers
- Heat Exchangers Hairpin Type
- Heat Exchangers Rod Baffle Type
- Gas Filters (cartridges / coalescers / double barrel / multicyclones)
- Water Self-Cleaning Filters
- Water Filters (basket / cartridges)
- Steam Separators
- Deaerators
- Indirect Water Bath Heaters



## Filters

Nr. 1 Gas Dehydration Inlet Coalescer + Platforms  
In SA-516 Gr.70 + Clad in SA-240 316L, H = 9.030 mm, OD = 2050, Thk = 72+2 mm  
For SNC Lavalin/ Sonatrach - Rhourde Nouss Project (Algeria)





*Drilling Offshore platform SOCAR AQS  
Caspian Sea*

## Shipbuilding

Ballast & EGCS systems feasibility studies, general plant engineering activities, from the earliest stages, on-board inspections by laser scan

## Chemicals & Onshore

Design of processing, sludge and gas treatment plants, and related transport (slug catchers, manifolds, pipelines, refining and petrochemical storage)

## O&G Offshore

Design of new plants and maintenance of existing ones assisted by the inspection activity of our technicians

## Drilling Rigs

Feasibility studies, structural calculations and design of entire systems including all mobile auxiliary equipment & 3D animation



*Tatweer Petroleum / Central Gas  
Dehydration –Bahrain*





Offshore platform SOCAR  
AQS Caspian Sea

## Energy

Hydroelectric, Cogeneration and trigeneration plants

## Skids & Packages

Design & engineering of well-defined process parts pre-installed on transportable structures on different choices and technical needs

- ☐ PROCESS ENGINEERING
- ☐ CIVIL AND STRUCTURAL ENGINEERING
- ☐ PIPING ENGINEERING
- ☐ FIRE AND SAFETY ENGINEERING
- ☐ MACHINERY AND EQUIPMENT ENGINEERING
- ☐ LASER SCAN SURVEYS
- ☐ ELECTRICAL-INSTRUMENTAL-AUTOMATION-PROTOTYPING ENGINEERING
- ☐ STANDARDS AND SPECIFICATIONS







*Glycol treatment plant consisting of Glycol Contactor, Glycol Scrubber & TEG regeneration installed on the FPSO SMART-1 - on behalf of AKER FLOATING PRODUCTION.*



*Gas Dehydration and Condensation Plant and related interconnections Booster Station BS-131 Kuwait - KOC Kuwait Oil Company.*



*GDU Gas Dehydration Unit treatment plant installed in the Persian Gulf - Manifa AH Crude Program on behalf of Saudi Arabian Oil Company.*

|                       |                    |               |
|-----------------------|--------------------|---------------|
| SOLARIUS              | AUTOCAD FULL       | PDMS          |
| PRIMUS                | MECHANICAL DESKTOP | E3D           |
| INTEGRA               | INVENTOR           | PIPEPLUS      |
| SPAC START IMPIANTI   | ADVANCE STEEL      | CAESAR II     |
| TNEVIP                | RECAP 360          | PV ELITE      |
| MC4 SUITE             | ESAPRO             | PIPING OFFICE |
| CPIWIN                | POINTSENSE         | PIPEMILL      |
| EC700                 | PROE - CREO        | PROSAP        |
| SPAC AUTOMAZIONE 2018 | SOLIDWORKS         | SAP 2000      |
| AUTOCAD LT            | SOLID EDGE         | STAAD         |



TEAM  
ENGINEERING



ELECTRICAL ENGINEERING  
INSTRUMENTAL ENGINEERING  
THERMOMECHANICAL ENGINEERING  
AUTOMATION  
CLASSIFICATIONS | EVALUATIONS ATEX  
FIRE PREVENTION  
ENERGY CERTIFICATES  
SUPPLY OF AUTOMATION PANELS  
SYSTEM TESTING  
ELECTROMEDICAL  
PRE-COMMISSIONING | COMMISSIONING  
SITE MANAGEMENT  
PHOTOVOLTAIC PERFORMANCE  
TRAINING





#### ENGINEERING SERVICES

- design, construction management and testing of civil and industrial works, technological systems, consultancy for fire prevention, safety, assistance and training courses related to the aforementioned materials;
- site management and project management activities;
- refurbishments in the energy saving and energy management sector;
- acquisition of maintenance and / or construction contracts for civil and industrial plants, to be managed through the use of third-party companies and / or suppliers.

The knowledge of the chemical processes related to the “Oil & Gas” plants applied in the o-shore design, allowed to take advantage of the experiences gained over the years, at sea too, in the development of projects aimed at the On Shore sector. More precisely for the design of sludge treatment systems and the design of gas treatment systems; We also design the relative transport and processing facilities, such as slug catcher, manifolds, pipelines and so on is part of the petrochemical refining and storage facilities.







**DM OFFICINE  
SKIDS & SPECIAL PIPING CARPENTRY WORKSHOP**

Medium/heavy carpentry structures in accordance with UNI EN 1090 or the AWS code  
Piping prefabrication in accordance with the UNI EN code or the ASME code  
Tanks up to diameter 3000 mm max weight 15 Ton in agreement to the ASME code  
Pressure vessels and equipment in accordance with the ASME code or the PED regulation  
Construction and assembly of process plants (skids)



For companies product catalogues and more informations  
please contact our Commercial Team at:

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