



Oil&Gas
Alliance

Petrochemical&**powergen**

Critical piping packages
Large diameter pipes
Heat treatment equipment
Multidisciplinary Engineering
Process Skids assembly
Offshore & Powergen units

turn-key **value** chain ¹

THE GROUP

3

APPLICATION FIELDS

GAS & CHEMICALS PLANT UNITS & PACKAGES

6

POWERGEN UNITS & PACKAGES

7

O&G & OFFSHORE

8

SKID CONSTRUCTION

9

DIVISIONS

PIPING PACKAGE

PIPING PACKAGE / Chero Piping Spa

12

LARGE DIAMETER PIPES / Inoxtech Spa

13

CRITICAL FASTENING / Bea Group Srl

14

FLUID SEPARATION / Dktc Srl

15

ENGINEERING SERVICES

INDUSTRIAL ENGINEERING / Tecnoteam Srl

17

ELECTRICAL ENGINEERING / Team Engineering

18

CONSTRUCTION & HEAT TREATMENT

SCRUBBERS & HEAT EQUIPMENTS / Nicro Spa

20

SKIDS ASSEMBLY / OF.RA Srl

21





Our experience comes from the most demanding offshore and floating projects within the Oil & Gas applications.

Our Alliance has been directly promoted by leading Italian manufacturers in top-deck skids solutions EGCS marine scrubber assembly and piping engineering for offshore and critical applications.

Over 40 years of industrial tradition allied to provide high-quality supply packages, accomplishing all main worldwide requirements for critical applications in offshore and shipbuild environments.

ISO Certified and officially approved by most major offshore and energy companies in the

global market, O&G Alliance currently serves leading worldwide offshore and FPSO projects lead by Petrobras, Lukoil, Exxon-Mobil, Saudi Aramco, Shell, Total, Sonatrach, PDO, BP, Chevron and many others. With its highly qualified staff,

Project management from the very first steps of the offer up to delivery of the goods, with a problem-solving attitude that gives to the Consortium its most important feature as an unmatched one-stop-shop procurement solution.

Our production guidelines take full and complete control of every material stream, from sourcing of raw material to the final product.

Our in-house laboratories perform full testing to each product's individual requirements including full chemical and mechanical testing workshops and NDT (Non Destructive Testing).

Documented activities for monitoring, measurement, analysis and improvement processes are available on request to demonstrate the conformity of the products and to ensure the adequacy of the Quality Management System.

ALLIED
to **COMPLY**

HEAT TREATMENT & NICKEL EQUIPMENTS
EGCS MARINE SCRUBBER



CRITICAL FASTENING



FORGED FITTINGS
& FLUID CONTROL



LARGE DIAMETER PIPES



ENGINEERING & COMPLIANCE



SKID ASSEMBLY & MAINTENANCE TEAM

Applications Filed



GAS & CHEMICAL

**POWER
GENERATION**

**O&G
OFFSHORE
REFINERY**

**SKID
CONSTRUCTION**



GAS & CHEM UNITS & PACKAGES

Process plants

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.

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.

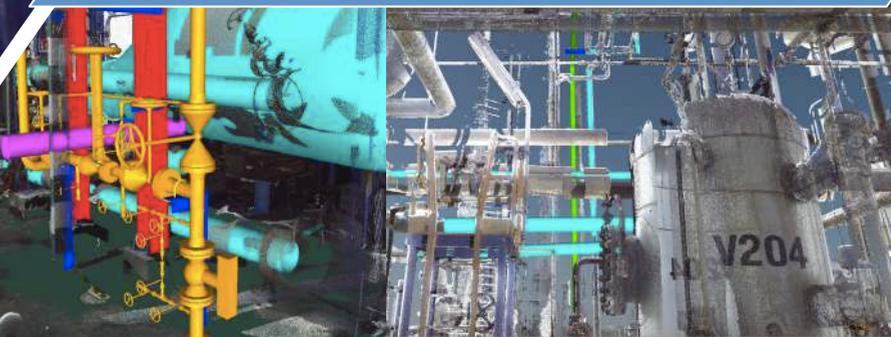
Gas Dehydration and Condensation Plant and related interconnections Booster Station BS-131 Kuwait - KOC Kuwait Oil Company.

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

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

Alliance capability

"Revamping Ammonia and Vapor B.P. lines" at the chemical center of Ravenna for YARA Italia S.p.A.



POWERGEN UNITS & PACKAGES

Tri-cogeneration projects

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.

83 MW cogeneration plant consisting of 2 10 MWe Jenbacher engines, 3 21 MWe gas boilers and 6 213 m³e storage tanks. Tor di Valle plant in Rome for ACEA Produzione S.p.A.

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

39 MW cogeneration plant consisting of 2 17 MWe Wartsila engines, 3 MWe DePreto 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.



O&G OFFSHORE & REFINERY

FPSO / FLNG projects

A Floating Production Storage and Offloading (FPSO) installation is a floating facility with processing equipments on the topside of the vessel for separation and treatment of crude oil, water and gases, arriving on board from subsea oil wells through a number of pipelines or risers that have been already installed on the seafloor.. There are massive challenges that come with combining a subsea management facility, oil and gas processing and storage operation on a single vessel.

The FPSO vessel is equipped to store the processed hydrocarbons in order to then be offloaded either by shuttle tankers or via pipelines to the shore. O&G Alliance companies provide stainless steel, duplex, super duplex

and nickel alloy complete package including skids, pipes, valves, fittings filters, strainers tubes for FPSO and FLNG vessel construction and maintenance.

We supply offshore construction projects / assembly completed with all grades items and shipbuilding grades and corrosion resistant grades (CRAs) to shipbuilding centers across the globe.

Floating engineering

ENGINEERING A FLNG SKID / Eni's Coral development in Mozambique. It will be the first FLNG in Africa.

The FLNG will have a length of 439 meters (1,440 feet), width of 65 meters (213 feet), depth of 38.5

meters (126 feet) and will weigh 210,000 tons. It is designed to produce three million tons of LNG and 480,000 tons of gas condensates (ultra-light oil) annually.

Our allied Tecnoteam is planning the electrochlorination skids for the production of sodium hypochlorite with the passage of electric current through a saline solution. It is used to prevent the formation of encrustations in plants using sea water. Electrochlorination of seawater eliminates the handling, storage and purchase of hazardous chemicals. O&G Alliance deals with the design and calculation of structures and piping.

Tecnoteam will also provide assistance during the assembly phases to assure the contractor a rapid response in the case of modifications requested during installation.

Off-shore Floating drilling HH300
SOCAR AQ5 Caspian Sea

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

Coral FLNG SA Area 4 of the Rovuma Basin
Activity: Off-Shore / Oil&Gas

Alliance capability

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



SKIDS CONSTRUCTION

- ❑ 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

Assembly projects

- ❑ 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
- ❑ 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

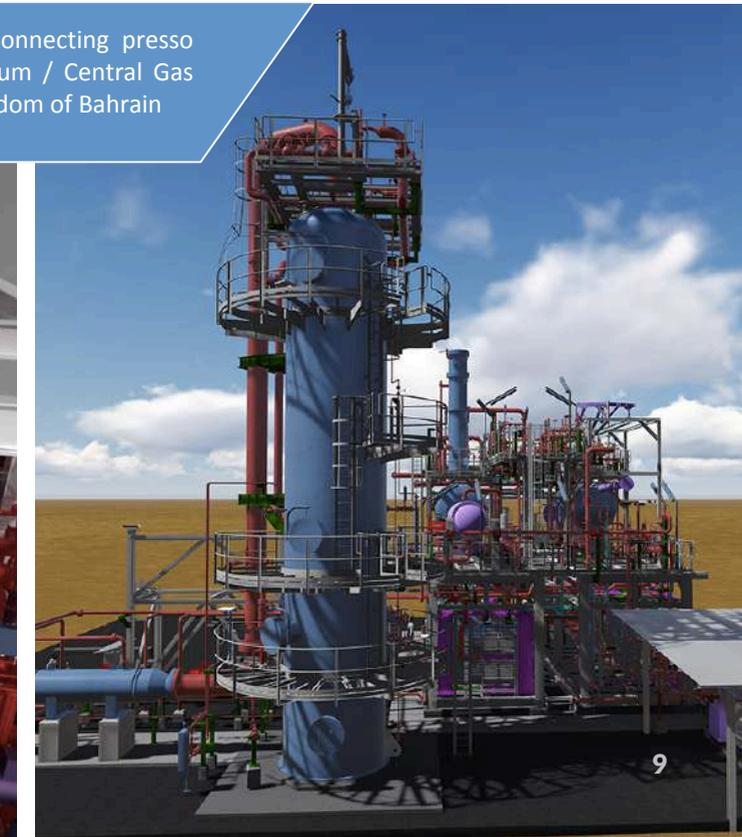
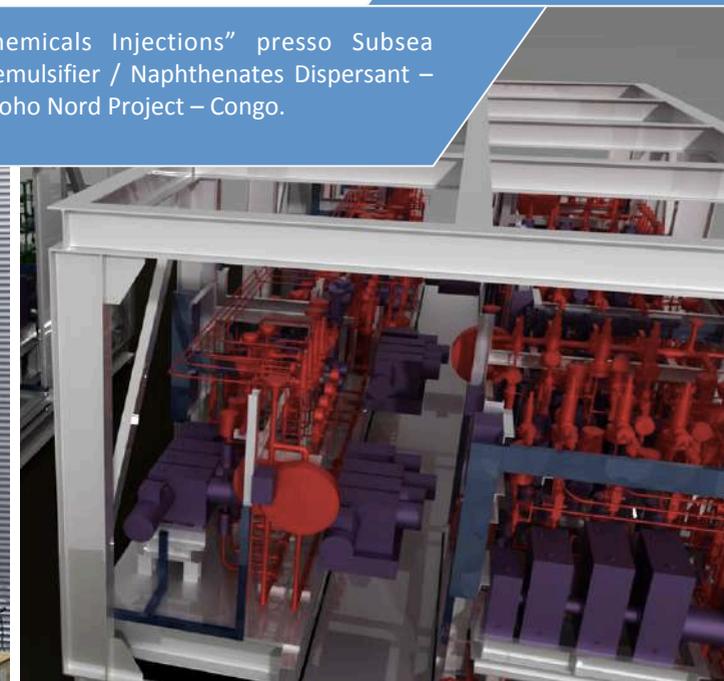
Skid engineering

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

Column and interconnecting presso la Tatweer Petroleum / Central Gas Dehydration – Kingdom of Bahrain

Chemicals Injections” presso Subsea Demulsifier / Naphthenates Dispersant – Moho Nord Project – Congo.

skid “MEG Regeneration” per PX Limited presso il sito Breagh Field – Teesside – UK



Production Divisions



CONSTRUCTION & HEAT TREATMENT

SKID ASSEMBLY & HEAT TREATMENT EQUIPMENT

- On-offshore modules & packaged units design
- Assembly and prefabrication of packaged units including E&I systems
- Scrubber systems
- Muffles & retorts
- Bells, bases & diffusers for furnaces
- Convection fans
- Radiant tubes
- Petrochemical equipments

ENGINEERING SERVICES

INDUSTRIAL & AUTOMATION

- Industrial, Piping, Structural
- Mechanical
- Thermomechanical
- Electrical
- Site management
- Automation
- Electromedical

CORROSION RESISTANT PIPING PACKAGES

FORGED FITTINGS
SPECIAL FASTENING
PIPES
FLUID SEPARATION

- Forged fittings
- Insulating Joints
- Branch reinforced fittings
- Specialty products
- Piping Bulks
- Bolts, Nuts, Studbolts
- Corrosion resistant large diameter pipes



PIPING PACKAGES



CORROSION RESISTANT PIPING PACKAGES

**FORGED FITTINGS
SPECIAL FASTENING
PIPES
FLUID SEPARATION**

- Forged fittings
- Insulating Joints
- Branch reinforced fittings
- Specialty products
- Piping Bunks
- Bolts, Nuts, Studbolts
- Corrosion resistant large diameter pipes

Chero Piping Spa

Corrosion resistant piping manufacturing & packages

- ❑ 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



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

Designed 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);



Lateral Tees

Orifice flanges

Spherical Wye pieces

Anchor flanges

Custom designed 90° and lateral

Urea plant Fittings



Custom made design

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



Branch Reinforced outlets



Insulating joints

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.



Inoxtech Spa

Large diameter pipes

Inox Tech produces longitudinally welded pipes with wall thickness up to 100mm and outside diameter up to 110" manufactured from quarto plates

Super Duplex



OUTSIDE DIAMETER:
6" TO 110"

WALL THICKNESS:
3MM TO 100MM
MAX UNIT LENGTH:
UP TO 12,5 MTRS

Materials
S31803
S32205/22Cr
S32750/25Cr
S32760/25Cr

Specifications
ASTM A928

ASTM A790
NORSOK M650 Rev
4
DNV OS F-101
API 5LC
EN 10217-7
SHELL MESC

Clad



OUTSIDE
DIAMETER:
6" TO 110"

WALL THICKNESS:
UP TO 100MM

MAX UNIT LENGTH:
UP TO 12,5 MTRS

CS Materials
API L X42/X52
X60/X65/X65/ X70
API 5L Gr.B
B50/B55/B60/B65/
B70
C60/C65/C70
CC60/CC65/CC70
CF65/CF70
1 1/4CR
2 1/4CR
5CR

9CR
91

CRA Materials
316L
N04400 (MONEL
400)
N06600 (INCONEL
600)
N06600 (INCONEL
601)
N06625 (INCONEL

625)
N08825 (INCOLOY
825)
N06200
(HASTELLOY C2000)
N010276
(HASTELLOY C276)
N08020 (ALLOY 20)
N08800 (ALLOY
800)
N08810 (ALLOY 800
H)

Nickel



OUTSIDE DIAMETER:
6" TO 110"

WALL THICKNESS:
3MM TO 100MM

MAX UNIT LENGTH:
UP TO 12,5 MTRS

Materials
N04400 (MONEL
400)
N06600 (INCONEL
600)
N06600 (INCONEL
601)
N06625 (INCONEL
625)
N08825 (INCOLOY
825)
N06200 (HASTELLOY

C2000)
N010276
(HASTELLOY C276)
N08020 (ALLOY 20)
N08800 (ALLOY 800)
N08810 (ALLOY 800
H)
N08811 (ALLOY 800
HAT)

Specifications
ASTM B705
ASTM B775
ASTM B514
ASTM B515
ASTM B516
ASTM B517
ASTM B619
CUSTOMER
REQUIREMENTS

Stainless steel



OUTSIDE DIAMETER:
6" TO 110"

WALL THICKNESS:
3MM TO 100MM

MAX UNIT LENGTH:
UP TO 12,5 MTRS

Materials
AISI304/304L/304H
AISI316/316L/316H/
316Ti/
316HiMo
AISI 317/317L
AISI 321/321H
AISI 347/347H

AISI 309/309S
AISI 310/310S
AISI S31254/UNS
N08926

Specifications
ASTM A358
ASTM A312

ASTM A778
NORSOK M650
- Rev 4
EN 10217-7
CRYOGENIC
SERVICE / NACE
CUSTOMER
REQUIREMENTS

Bea Group Srl

Quality of manufacturing

Bea relies on a well-established manufacturing process, from raw materials, to finished product, all aspects of every processing operation are followed at in-house level. This is possible thanks to Bea's agile and compact corporate structure: a really important business within the market also in virtue of the rapidity of response to customers' requirements. Indeed, today Bea is in all respects one of the few companies within the industry of manufacturing fastening components, which is capable of assuring the flexibility that is required by the market. This means a lot.



Steel grades

ASTM A453 660 / 1.4980

Highly creep and corrosion resistant, precipitation hardening austenitic steel. Scaling resistance in air up to appr. 800°C.

UNS S32760 / ASTM A182 F55

Ferritic-austenitic stainless steel. Excellent corrosion resistance against general corrosion, stress corrosion cracking, corrosion fatigue, pitting, crevice and erosion corrosion and possessing very high mechanical strength properties.

ALLOY 718

High temperature, precipitation hardening, nickel-base alloy with particularly high hot strength and yield strength up to 750°C, and excellent creep behaviour up to 700°C. The markedly higher hot strength compare with normal hot work steels in particularly noticeable when used for hot work tools with high mechanical and thermal stresses.

ALLOY 625

Is a non-magnetic, corrosion and

oxidation – resistance, nickel based alloy. High toughness and strength in the temperature range cryogenic to 1000°C. The alloy as excellent fatigue strength and stress corrosion cracking resistance to chloride ions.

ALLOY 925

Is as age-hardenable nickel-iron-chromium alloy. Is used in various applications requiring a combination of high strength and corrosion resistance.

MONEL 400

Is a solid-solution alloy that can be hardened only by cold working. It has high strength and toughness over a wide temperature

MONEL 500

Is a nickel-copper alloy with combines the excellent corrosion resistance of Monel 400 with the added advantages of greater strength and hardness. The increased properties are obtained by adding aluminium and titanium to the nickel-copper base by heating.

DUPLEX

Ferritic-austenitic stainless steel also referred to as DUPLEX STAINLESS STEELS, combine many of beneficial properties of ferritic and austenitic steels. Due to the high content of chromium and nitrogen, and often also molybdenum, these steels offer good resistance to localised and uniform corrosion. The duplex microstructure contributes to the high strength and high resistance to stress corrosion cracking.

SUPERDUPLEX

A Super Duplex stainless steel is a type of Duplex stainless steel with enhanced corrosion resistance which is categorised by its PREN being greater than 40. The Pitting Resistance Equivalent Number (PREN) is widely used as a means of comparing the relative corrosion resistance of different steel grades.

ASTM A193

Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications.

ASTM A320

Standard Specification for Alloy-Steel and Stainless Steel Bolting for Low-Temperature Service.

ASTM F467

Standard Specification for Nonferrous Nuts for General Use.

ASTM F468

Standard Specification for Nonferrous Bolts, Hex Cap Screws, Socket Head Cap Screws, and Studs for General Use.



Bolts & Studbolts



Custom made

Studbolts

DIMENSIONS: 3/8" – 5" aANSI/ASME M8 – M125ISO

The stud bolts that are manufactured by Bea are suitable for several needs and are made with all types of materials, from the smallest (5/16" or M6) to the largest (7" or M180).



Custom made

DIMENSIONS: 3/8" – 12" ANSI/ASME M8 – M300ISO

Eight CNC machines, two semiautomatic milling machines and a machining centre allow Bea to manufacture items to the customer's specific drawings.



Nuts

Indicator Bolts

The function of the Indicator Studbolt is to evidence at all times the dynamic stresses that it undergoes and if these stresses are within the limits of the design of the system. is a direct relation of temperature and pressure. To satisfy these requirements the Indicator Studbolt must be constructed as follows:



Bolts & nuts

Imperial Range 5/16" - 5"
Metric Range M6 - M125

To complete the range of customers' requirements, Bea supplied bolts (Hex head bolts, round head socket cap-screws) made primarily in with special materials.



DKTC Srl

Fluid separation & Filters

ABOUT US

D-ktc fluid control is one of the very few companies worldwide who actually offers a complete range of mechanical filters and steam equipment.

MISSION

D-ktc fluid control faces every challenge with innovative, efficient and safe solutions to satisfy customers needs.

EPC MARKET

ACTIVE IN EUROPE AND MIDDLE EAST

Know-how and experience of French and Italian engineers

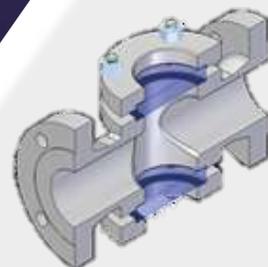
Steam products manufactured by

Armstrong International

Strainers, sight glasses, separators and other equipments

Capability and the flexibility of

ARMSTRONG GROUP



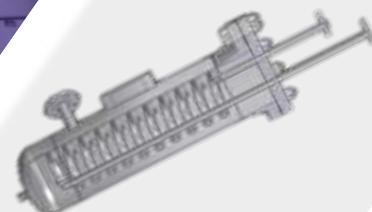
Sight Flow Indicators

Our sight flow indicators are characterized by efficient sealing and simple maintenance, and are available also in hipressure/temperature combinations.



Strainers

Our strainers present a wide choice of sizes and materials to meet most filtering requirements. All of our strainers are made to the highest standards



Sample Coolers

Our sample coolers selection is the widest possible to meet all your steam, water, hydrocarbon and other sampling needs.



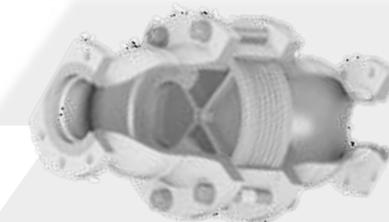
Flame Arresters

Flame arresters are passive devices that prevent the propagation of flame from the exposed side of a pipe to the protected side by the use of a wound crimped metal ribbon type flame cell element.



Exhaust Heads

Our exhaust heads are especially designed to safely discharge steam into the atmosphere to meet all customer requirements including noise reduction.



Steam Products

Our steam products range is linked to Armstrong International, since D-KTC is its official agent for EPC market. Therefore our selection for hot water, steam and air solutions is the widest worldwide.

Engineering services



 **Tecnoteam**
INDUSTRIAL ENGINEERING

 **TEAM**
ENGINEERING

**INDUSTRIAL
MECHANICAL
ELECTRICAL
SITE MANAGEMENT**

- Industrial, Piping, Structural
- Mechanical
- Thermomechanical
- Electrical
- Site management
- Automation
- Electromedical

Tecnoteam Srl

Multidisciplinary Engineering

- ❑ 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

Drilling Offshore platform
SOCAR AQS Caspian Sea

Drilling Rigs

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

Offshore platform SOCAR
AQS Caspian Sea

O&G Offshore

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

Tatweer Petroleum / Central
Gas Dehydration –Bahrain

Chemicals & Onshore

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

MEG Regeneration” per PX Limited
Breagh Field – Teesside – UK

Skids & Packages

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

Scrubber piping Costa Magica

Shipbuilding

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

Cogeneration plant 39 MW / 2 Wartsila 17 Mwe engines, turboDePretto 3 MW S.F.I.R. Spa

Energy

Hydroelectric, Cogeneration and trigeneration plants

Software

SOLARIUS	AUTOCAD FULL	PDMS
PRIMUS	MECHANICAL DESKTOP	E3D
INTEGRA	INVENTOR	PIPEPLUS
SPAC START IMPIANTI	ADVANCE STEEL	CAESAR II
TNE VIP	RECAP 360	PV ELITE
MC4 SUITE	ESAPRO	PIPINGOFFICE
CPIWIN	POINTSENSE	PIPEMILL
EC700	PROE - CREO	PROSAP
SPAC AUTOMAZIONE 2018	SOLIDWORKS	SAP2000
AUTOCAD LT	SOLID EDGE	STAAD

Team Engineering Electrical & Automation

The services offered by TEAM Engineering S.r.l. can satisfy all technical and operational needs in the plant engineering and shipbuilding sector in general:

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.



Drilling Offshore platform
SOCAR AQS Caspian Sea

Electrical engineering

Development of electrical engineering HV, MV, LV basic and detailed



Offshore platform SOCAR
AQS Caspian Sea

Thermotecnical engineering

Basic and detailed development of thermomechanical and HVAC engineering
Technical Report Law 10/1991 (verification of heat losses)



Tatweer Petroleum / Central
Gas Dehydration –Bahrain

Classification / Evaluation ATEX

Classification of areas with danger of explosion (ATEX)
Lightning risk assessment (ATEX)



Scrubber piping Costa Magica

Automation

Design, programming and service of automation systems, PLC, DCS, etc.



MEG Regeneration” per PX Limited
Breagh Field – Teesside – UK

Instrumental engineering

Basic and detailed instrumental engineering development

Cogeneration plant 39 MW / 2 Wartsila 17 Mwe
engines, turboDePretto 3 MW S.F.I.R. Spa

Site management

Assistance and management of construction sites such as
Project management and site Engineering



Construction & Heat treatment



NICRO
LAVORAZIONI SPECIALI LEGHE DI NICHEL DAL 1976



PROCESS SKIDS & HEAT TREATMENT EQUIPMENT

- On-offshore modules & packaged units design
- Assembly and prefabrication of packaged units including E&I systems
- Scrubber systems
- Muffles & retorts
- Bells, bases & diffusers for furnaces
- Convection fans
- Radiant tubes
- Petrochemical equipments

Nicro Spa

Heat treatment & scrubbers

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 NO6601
Alloy 602	W.2.4833	UNS N06025
Alloy 800H	W1.4876	UNS NO8810
Avesta 253MA	W.1.4835	UNS 530815

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.

Marine scrubbers



Flares O&G equipments

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



Muffle & Retorts

Nicro is a premium partner thanks to decades of experience. Failing the construction drawing, we can use reverse engineering to measure the dimensions and collect all the necessary data to produce a new muffle.

Radiant Tubes

Advanced pressing / bending machines, laser-cutting and equipment for assembly and automated welding

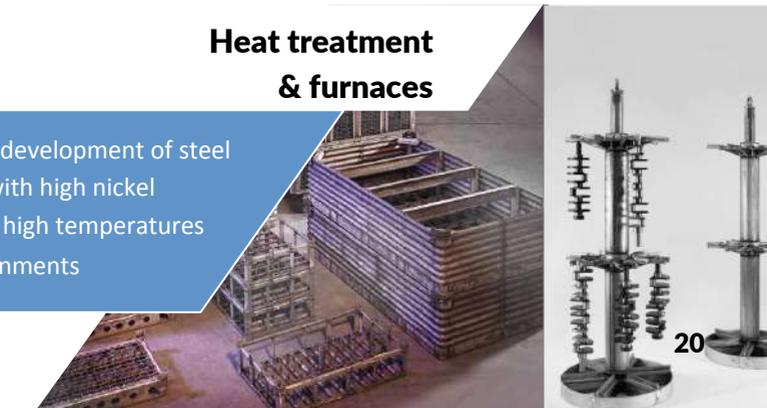


Bells Bases & diffusers for furnaces

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

Heat treatment & furnaces

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





www.ofrasrl.it

Ofra Srl

Skid assembly & workshop

- ❑ 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.



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 CO₂. 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.



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.





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

HEAD OFFICE

ITALY - Viale Virgilio 58/C 41123 Modena

info@oilgasalliance.it

MILANO SALES OFFICE +39 02 70601557

DIRECT LINE +39 340 9863441

All right reserved Oil & Gas Alliance 2020

<http://www.oilgasalliance.it/>