



PROCESS SKID PACKAGES



**Process Skid Packages
Division**

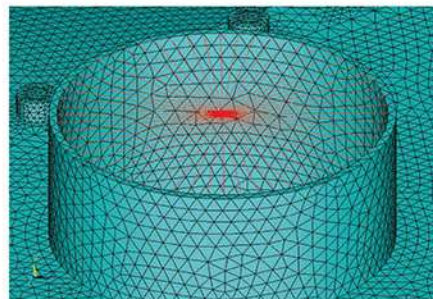
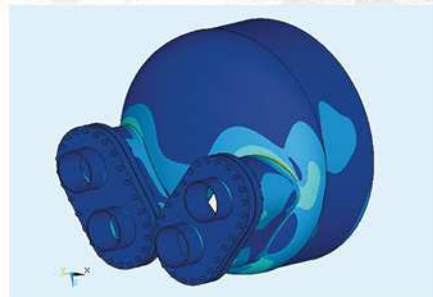
EUROGUARCO SpA
Italy



Process Skid Packages

Euroguarco Process Skid Packages Division has been established with the scope to provide a global solution for medium size EPC projects, with no border limitation, offering Basic and Detailed Engineering, Procurement, Construction and Assembly of Pressure Equipment and Process Packages supplied on skid, for the following industries:

- Oil & Gas
- Petrochemical
- Chemical
- Power Plants.



Main Process Packages / Systems

- Oil and Gas Separation & Treatment (Trains & Packages)
- Slug Catcher (Finger Type)
- Fuel Gas Conditioning / Treatment Packages
- Electrostatic Dehydrators (Desalters)
- Gas Dehydration and Regeneration Packages
- Gas Sweetening, Regeneration and Pressure Reducing Packages
- NGL Recovery Systems
- Gas Compression & Water Injection Systems (Trains & Packages)
- Hot Oil Systems
- Water Bath Heaters
- Direct Fired Heaters & Indirect Fired Heaters
- Chemical Injection Packages
- Pig Traps Packages (Launching and Receiving)
- Manifolds Packages
- Flare Tips and Flare Systems.



La Spezia, Plant 1

EUROGUARCO

The Company

Established since 1958 in La Spezia by Luciano Ghirlanda, the company has gradually developed to become a trustworthy reference point in the global market, where it operates directly and through distributors and agents.


La Spezia, Plant 2


The activity is mainly focused on the production of products for various industrial fields such as Oil & Gas, Marine, Rail, Mechanical and Chemical. Besides the company distributes semi-finished products to various processing and installation industries.



Quality System

Euroguarco works in Quality Assurance System Certificate:

- ISO 9001
- ISO/TS 29001
- API 6D license
- EN 9100 (Aeronautical Industry)
- 2014/68/UE (PED)
- ATEX



Certification

Euroguarco products have Certifications & Approvals required for use in various Industrial Sectors, among which:

- Oil & Gas (DIN-DVGW)
- Marine Industry (MED/IMO)
- Railway Industry (EN 45545)
- Navy


Cremona, Plant 1


Engineering Activities

Basic Engineering

- Conceptual Design Development
- Feasibility Studies
- Basic Design Development
- H&MB, PFD and P&ID Preparation
- Design and Control Philosophy
- Functional Specifications for Process Systems
- Process Data Sheets.

Detailed Engineering up to as-built

- Piping & Layout
- Civil & Structural
- Electrical
- Instrumentation & Automation
- Technical Specification
- Bid Technical Evaluations
- Follow up of suppliers activities and vendor drawings
- Permitting Engineering
- Operating, Safety and Maintenance Manuals
- Commissioning, Start up and Shut Down Procedures.



Main Engineering Software

Process

- AspenTech AspenOne
- AspenTech Hysys v.8
- HTRI.

Piping & Layout

- Aveva PDMS
- Intergraph PDS
- Intergraph Smart Plant 3D
- Coade Caesar II
- Autodesk / AutoCad / Inventor.

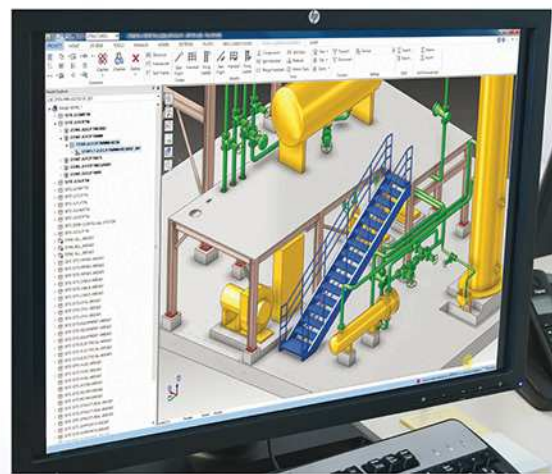
Civil & Structural

- Harpaceas Tekla v.20
- SAP 2000
- ROBOT.

Electrical & Instrumental

- Aveva Instrumentation
- Intergraph INTOOLS
- ZEUS 2.

Other Software are available as per Customer Requirements.



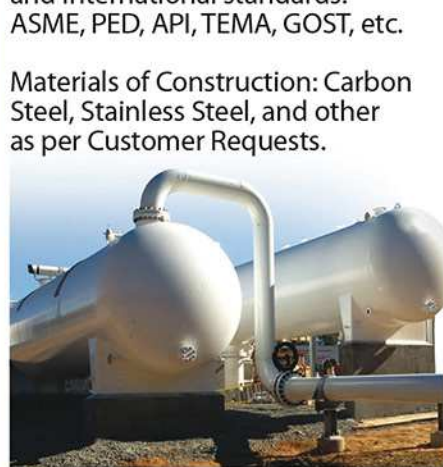


Pressure Equipment

- Pressure Vessels
- Slug Catcher (vessel/finger type)
- Pig Traps
- Heat Exchangers
- Gas Scrubbers
- Condensers
- Boilers
- Economizers
- Sieves
- Columns.

Designed in full accordance with Customer Specifications and International standards: ASME, PED, API, TEMA, GOST, etc.

Materials of Construction: Carbon Steel, Stainless Steel, and other as per Customer Requests.



Instrumentation Packages

- Metering Systems (Custody and Non Custody, Orifice, Coriolis, Ultrasonic)
- Wellhead Control Panels
- Prefabricated Shelters (Control Rooms, Electrical Rooms, Analyzing Shelters)
- Analyzer Packages.



From Engineering to Construction and Assembling of Complete Packages





Quality Control & Testing

Quality control procedure and testing are carried out in strict compliance with relevant standard or according to additional client's requirement. **Euroguarco** can satisfy all testing requirements, whether by in-house facilities or from external qualified laboratories next to the factory:

- Chemical Analysis (Positive Material Identification including Carbon Content when required).

- Mechanical Tests (Hardness and Impact Test)
- Visual and dimensional Exam.
- Hydraulic test of Pressure Equipments (ASME VIII or per client's request)
- Hydraulic test of Piping Spools (ASME B 31.3 or per Clients Request)
- Magnetic Particle (MP) Exam.
- Liquid Penetrant (LP) Exam.
- Ultrasonic Penetrant (UT) Exam.
- Radiographic (RT) Exam.
- Phased Array Ultrasonic Exam.
- Inspection of coated and painted surfaces
- Factory Acceptance Test (FAT).



Special Tests

- HIC & SSCC for Sour Service
- Low Temperature Test for Cryogenic Service
- Gas Test
- Any other NDE on Request.
- Other Tests per Customer Request.



Certification

Euroguarco Process Skid Packages Division is an ISO 9001 Certified Company for the Design and Supply of Oil&Gas Plants. CE, Atex, ASME U/U2/R stamps can be provided.





Selected References

- ABB (Italy)
- ADOC Japan (EAU)
- Agip (Italy)
- Agip KCO (Kazakhstan)
- AGOCO (Libya)
- Alenia Aeronavale (Italy)
- Ameira Petroleum (Egypt)
- Ansaldo Energia (Italy)
- ASRY Shipyards (Bahrain)
- Attok Refinery (Pakistan)
- Bangladesh Gas Field Co. (Bangladesh)
- Baniyas Power Co. (Syria)
- Baniyas Refinery (Syria)
- Bateman-Litwin (France)
- Belleli (Italy)
- BP (Iraq)
- Brega (Libya)
- Brembana (Italy)
- Cairo Refining (Egypt)
- CERN (Switzerland)
- Daura Refinery (Iraq)
- Dongang Boiler Group (China)
- Eastern Refinery (Bangladesh)
- Eco Petrol (Colombia)
- Edipower (Italy)
- ENEL (Italy)
- ENI (Italy)
- Enppi (Egypt)
- Fincantieri (Italy)
- Finmeccanica (Italy)
- Fondital (Italy)
- Foster Wheeler (Italy)
- Gas Transmission Co. Ltd (Bangladesh)
- GAZPROM (Russia)
- GE Nuovo Pignone (USA, Italy)
- Homs Refinery (Syria)
- Jordan Petroleum Refinery (Jordan)
- LukOil (Russia)
- MAERSKOIL (Kazakhstan)
- Magotteaux (Belgium)
- Mangiarotti (Italy)
- Mari Gas Co. (Pakistan)
- McDermott (USA)
- Mellitah (Libya)
- Midland Refinery (Iraq)
- Ministry of Defense (Italy)
- National Refinery (Pakistan)
- NIGC (Iran)
- North Oil Company (Iraq)
- NPCC (EAU)
- Nuovo Pignone - GE (Italy)
- Officine Resta (Italy)
- Olmi - Alfa Laval (Italy)
- OPET Petrol (Turkey)
- ORYXGAS (Switzerland)
- Oto Melara (Italy)
- PDI-Pemex (Mexico)
- Petrojet (Egypt)
- Qatar Gas (Qatar)
- Ras Gas (Qatar)
- Saipem (Italy)
- Saras (Italy)
- SCOP (Iraq)
- Sirte Oil Co. (Libya)
- Snam (Italy)
- Solvay (Italy)
- South Oil Company (Iraq)
- SGS Oil & Gas (Czech Republic)
- SSGC (Pakistan)
- Kala Naft (Iran)
- Kordestan Petrochemical (Iran)
- MAPNA (Iran)
- Metec (Ethiopia)
- Nargan (Iran)
- NIOC (Iran)
- PDO (Oman)
- Pentair (USA)
- POGC (Iran)
- Yara (Italy)
- Sung Kyong (South Korea)
- Tecnimont (Italy)
- Tehran Refinery (Iran)
- Termomeccanica Italiana
- Trenitalia (Italy)
- Waha Oil Company (Libya)
- Warri Refinery (Nigeria)



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