



**Modern
Energy
Supply**

smart solutions + great developments

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Technology Portfolio

Products | Services | Experience



smart solutions + great developments



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The Portfolio



Our technology portfolio offers to the industrial market a wide range of solutions which are the state of the art, developed by worldwide manufacturers who has been our partners in this long history of success; with our own engineering resources we design the processes and make the suitable equipment or material selection for the client's needs in the disciplines like Mechanical, Electric, Instrumentation & Control and Fire & Gas mainly.

Markets:

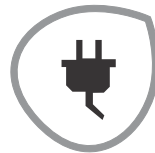
The solutions are oriented to new and existing industrial facilities in the following sectors:



Oil & Gas



Infraestructure



Power



General Industry

Solutions



Specification and / or process design, equipment and materials for treatment and processing of hydrocarbons and various effluents.



Integrity Asset Management.



Redesign, Modernization and Revamping.



Monitoring and Control .



Supply, Installation and Commissioning.



Supply of Spare Parts and Management of Materials Warehouse

Process Equipment



Heat Exchanger shell & tube



Plates Heat Exchangers



Electrostatic Heater Treater



Columns



Reactors



Towers



Production Separator



Glycol Dehydration Units



Process Equipment



Fuel Gas Conditioning Unit.



Electrostatic Desalter



Boilers/HRSG



Slug Catcher



Free Water Knockout - Flow Splitters



Selfsupported Flare Systems



Elevated Flare Systems



Ammonia Vaporizers



Water Treatment Units



Process Equipment



Salt Bath Heater



Gas Amyne Unit



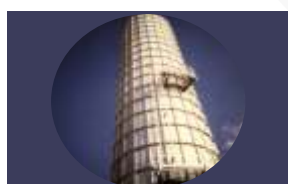
Electrostatic Coalescer



Mechanical Heater Treater



Offshore Production Units



Underground Flare Systems



Dew Point Units



Instrument Air Drying Unit



Tubes & Pipes



API Tubing 5CT

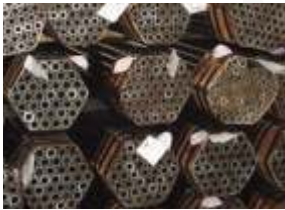
We provide steel products from new production and stock



Drilling Pipes



Line Pipe API 5L



Boiler & Heat Exchangers Tubes



Finned Tubes



Studded Tubes



Induction Bends



Midstream Solutions



Measurement Skids

We design, build and operate the solutions for hydrocarbons transportation and storage.



Oil/Gas Filter Separator



Launcher - Receiver Traps
Skid Mounted



Manifolds



Lact Units

Sampling Systems

Odorization Systems

Storage Tanks



Rotative Equipment



Twin Screw Pumps



Progressive Cavity Pumps



General Purposes Pumps



Reciprocating Pumps



Air & Gas Compressors API 618



Industrial Fans

Gen Sets
(GAS-DIESEL-HFO)

Gas Turbines



Process Pumps Horizontal and Vertical API 610

We provide new units as per client's needs and specs. As alternative we keep a wide stock of pumping, compression, and power gen packages with low use or overhauled with extended warranty

Instruments



Flow

Flow Transmitters
Flow Meters
Mass Flow Meters



Temperature

RTDs and Thermocouple
Temperature Transmitters



Pressure

Pressure Indicators
Pressure Transmitters



Level

Level Indicators and Transmitters



Vibration

Proximity Probes for Vibration Sensing
Vibration Transmitters and Transducers
Vibration Monitoring Equipments



Control

Programmable Logic Controllers
Control Valve



Industrial Lab Instruments

Viscosity
Penetration
Flash Point
General Test Equipment

Valves



Types:

Ball
Gate
Niddle
Butterfly
Trunnion
Safety
Special

Materials:

Carbon Steel
Alloy Steel
Stainless Steel
PVC/HDPE

Remanufactured Valves
Upon request are available

Water Jetting High Pressure



Model: DTI-100 up to 40.500 psi
up to 17 gpm



Model: DTI-180 up to 40.500 psi
up to 26 gpm



Bundle Puller Heat Exchanger
Water Jetting Machine



Engine: Choice of Doosan,
Perkins Volvo or similar, Motor diesel.

Spare Parts & Accesories



Filter Cartridge



Baskets



Scrappers - Pigs



Tricone Bits



Bolts And Gaskets



Spare Parts for All Rotative Equipment

Our Experience





Product: Heat Recovery Steam Generator
Service: Combined Cycle – Natural Gas.

Units: 3

Design Codes:

Process Licensors: CB&I

Customer: Reficar

End User: Cartagena Refinery

Year of Manufacturing: 2011

Manufacturing Facilities: Gallarate, Italy



Product: Column & Coke Drums
Weight Range (Min / Max): 285 Tons
Units: 4 Columns – 6 Drums
Maximum Length: 24 MTS.
Maximum Diameter: 7 Mts
Maximum Wall Thickness: 32 + 3 mm.

Shell & Head Materials: SA 387 Gr.11 Cl.1 + 410 S

Design Codes: ASME VIII div.1,
2007 Edition, 2009-B Addenda

Customer: REFICAR

End User: Cartagena Refinery

Year of Manufacturing: 2010

Manufacturing Facilities: Ortona, Italy.





Product: Storage Bullets
Service: Cryogenic – Propylene Refinery Grade.
Weight Range (Min / Max): 60 Tons.
Units: 2
Maximum Length: 60 Mts.
Maximum Diameter: 7 Mts.
Maximum Wall Thickness: 1,625 Inch.
Shell & Head Materials: SA-516-G70



Design Codes: ASME

Customer: ECOPETROL
End User: Barrancabermeja Refinery
Year of Manufacturing: 2010
Manufacturing Facilities: Pueblo Viejo, Guadalajara México.



Product: REACTOR
Service: Parafin
Weight Range (Min / Max):
30 Tns.
Units: 2
Maximum Length: 18 mts.
Maximum Diameter: 2,5 mts.
Maximum Wall Thickness: 30 mm
Shell & Head Materials: A 387 Gr. 11 Cl 2

Design Codes: ASME VIII DIV.1
Customer: ECOPETROL
End User: Barrancabermeja Refinery
Year of Manufacturing: 2007
Manufacturing Facilities: Albignasego (PD) Italy





Product: High Pressure Heat Exchangers Package
Service: Water – Steam, others
Weight Range (Min / Max): up to 8 tns.
Maximum Diameter: 1,5 mts.
Maximum Wall Thickness: 1 inch.
Shell & Head Materials: SA 240 TP 304L
Design Codes: ASME VIII DIV 1 AND 2
Customer: REFCAR
End User: Cartagena Refinery
Year of Manufacturing: 2010
Facilities: Albignasego (PD) Italy



Product: Air Cooled Heat Exchanger
Service: Hot Separator Vapour Condenser
Weight Range (Min / Max): 14 Tons
Units: E-2656 A/B
Shell & Head Materials: ALLOY 825
Design Codes: ASME VIII DIV. 1
Customer: ECOPETROL
End User: Barrancabermeja Refinery
Year of Manufacturing: 2010
Manufacturing Facilities: Suisio (BG) - Italy





Product: Spools and Pipes Fabrication
Service: Refinery Process Pipeline
Weight Range (Min / Max): 1,000 tons
Materials: Carbon Steel, Stainless Steel, Duplex
Superduplex, Alloys, Special Alloys.
Diameters: 2 up to 36 inch.
Design Codes: B 31.3 - others.
Customer: REFICAR
End User: Cartagena Refinery
Year of Manufacturing: 2011
Manufacturing Facilities: Corpus Christi, Tx – USA.



Product: High Pressure VESSELS
Weight Range (Min / Max):
88 / 245 Ton/each
Units: N° 3

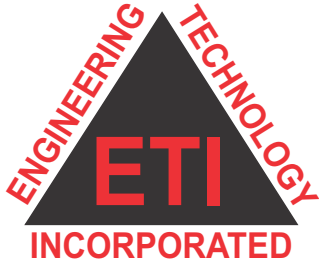
Maximum Length: 16.000 mm TL/TL
Maximum Diameter: 3.810 mm
Maximum Wall Thickness: 203 mm / 120+4

Shell & Head Materials:
Sa336 F22 CL.3 / SA 516 Gr.70+WD316L
Design Codes: ASME U2 STAMP

Customer: REFICAR
End User: Cartagena Refinery
Year of Manufacturing: 2011

Manufacturing Facilities: PORTO TORRES (SS) – ITALY





Product: FUEL GAS TREATMENT UNIT
AND REGENERATION GLYCOL PACKAGE

Service: Gas Treatment.
Inlet Gas Flow Rate: 9.9 MMSCFD
Treated Gas Flow: 9 MMSCFD
Inlet Gas Temperature: 120°F
Inlet Gas Pressure: 1794 – 2104 psia
Design Codes: ASME VIII Div. 1
Customer: BP EXPLORATION CO (COL)
End User: PIEDEMONTE FIELD
Year of Manufacturing: 2010
Manufacturing Facilities: Tulsa, OK - USA



Product: Pig Launcher & Receiver
Service: Smart Pigs

Weight Range (Min / Max): 3 Tons.
Units: 9
Maximum Length: 12 mts.

Maximum Diameter: 20 inch.
Maximum Wall Thickness: 0.750 inch.

Shell & Head Materials: API 5L X 65
Design Codes: ASME VIII Div. 1

Customer: ECOPETROL
End User: Poliducto Andino
Year of Manufacturing: 2010
Manufacturing Facilities: Bogotá, Colombia



OCENSA

Power Expansion Project P - 135
Pumping Station Paez (Boyaca - Colombia)
SCOPE : Land movements , soil improvement and
construction of roads in the Paez Station.
Date: 18 September 2014
Completion date: April 30, 2015



Capacity Expansion Project P - 135
Pumping Station Chiquillo
(Remedios Antioquia Colombia)
Scope : Land movements , soil improvement ,
and construction of
roads of Chiquillo Station.
Date: 18 September 2014
Completion date : July 5, 2015

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Our Customers

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