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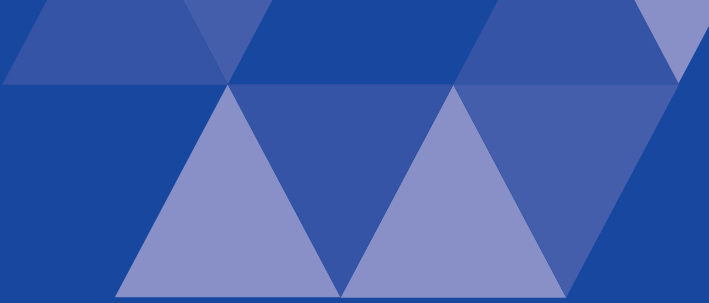


PRESSURE EQUIPMENT FOR POWER, OIL & GAS

50 YEARS OF EXPERIENCE

Engineering & Manufacturing





INTRODUCING OUR CONCEPT OF BUSINESS

OCS pays close attention to the quality of its products with the guarantee of made in Italy manufacturing and using Italian and European raw materials. Thanks to the rational and efficient use of the company resources, OCS is a very flexible and dynamic company.

CONTENTS

MISSION	04
VISION	05
LONG EXPERIENCE	06
WORKSHOPS	08
EQUIPMENT	10
OUR PRODUCTS	12
OCS ENGINEERING	14
STRONG POINTS	16
INSPECTIONS AND TESTS	17
QUALITY SYSTEM	18
HEALTH, SAFETY & ENVIRONMENT	19





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OCS manufactures the highest quality of Pressure Equipment, required by the global market.

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MISSION

THE PROJECT

Delivering quality,
custom made products,
manufactured within
project schedule
commitments, in safety
conditions.

VISION

OUR CULTURE

THE SOLUTION

from the project to the manufacturing
in every Refinery, Oil & Gas plant...
OCS is there!

Our skills
at your
service!

TRUST IN OUR LONG EXPERIENCE

O.C.S. OFFICINE COSTRUZIONI SPECIALI was founded in 1970 by the engineer Giancarlo Ravagnan, with activities focused on design, engineering and fabrication of special machines required by clients, offering personalized solutions and taking into account the special situations and workplaces where the machines had to work.



Resulting from the technical competence developed during these years, **OCS is nowadays competitive and known all over the world!**






Since XXI century OCS has increased its competitiveness in the design and fabrication of Pressure Equipment for the Oil & Gas / Petrochemical sector, especially in heavier and higher thickness vessels fabrication.

550 TONS

WORKSHOPS

DEVELOPMENT
SITE



OCS workshops are located in the North of Italy, with an easy access to the major Adriatic sea ports.

Albignasego Plant: 33,000 sq. m.

Marghera Plant: 24,000 sq. m.

Transport restriction to the nearest harbor (Venice): 50x8.5x8.5 m
Our plants are fully equipped with the most updated machineries, enabling us to manufacture Pressure Equipment **up to 550 tons.**

Sandblasting & Painting shops with PWHT Furnaces are available in both plants.

HIGH PERFOR MANCE



*Experience and Technology
in Manufacturing Pressure Equipment*

Strategic Locations

ALBIGNASEGO PLANT



MARGHERA PLANT

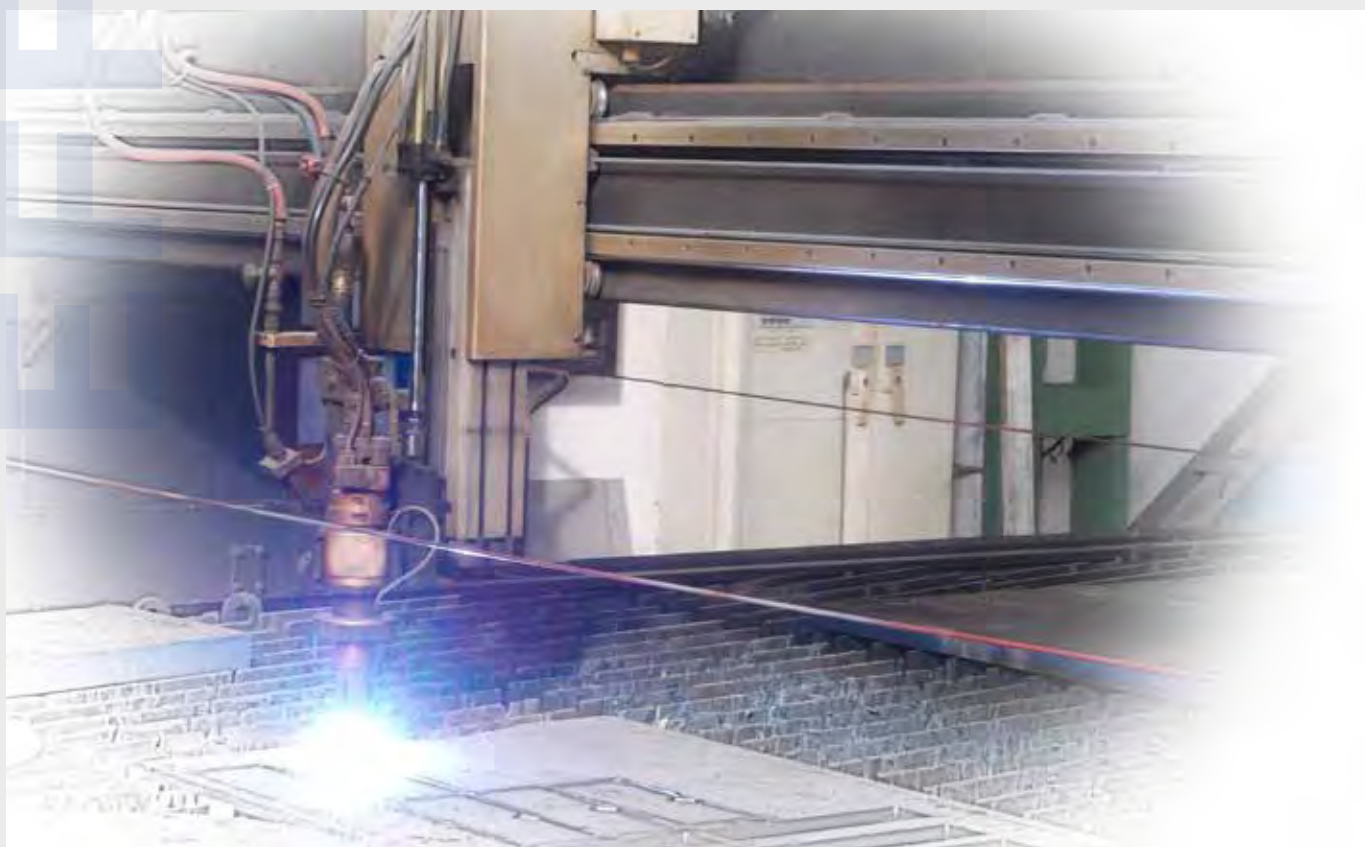


A large industrial robotic welding machine with blue and black components is shown in a factory setting. The machine is positioned over a large, circular metal plate with many small holes. A bright blue flame or light is visible at the point of contact between the machine's nozzle and the metal plate. The background shows various industrial structures and equipment.

BEST EQUIPMENT FOR BEST RESULTS!

OCS facilities include in-house rolling machines, plasma cutting machines vertical / horizontal lathes, milling machines and hydraulic presses, with a computer numeric control system. OCS is also equipped with different types of cutting, sawing, bevelling, drilling, bending, baring, shearing, grinding, milling, tube expanding and cleaning machines.

Different types of welding machines are available to meet every customer's needs, such as:
SAW, SMAW, ESW, TIG, MIG, MAG.



50 YEARS EQUIPPING YOU WITH PRESSURE ITEMS

In-house fabrication
and assembly

OCS offers
its customers
a complete service
of Pressure
Equipment for
Power, Oil & Gas
Industry.



OUR PRODUCTS

OCS product range encompasses engineering and fabrication of **Pressure Vessels, Shell & Tube Heat Exchangers, Decomposers, Columns, Reactors and Boilers - Waste Heat Recovery Units** (including thermal design), **Desalters** and **PSA** (Pressure Swing Adsorption Process).



Key-forces:
experience, reliability,
on time deliveries,
according to customers
specifications.

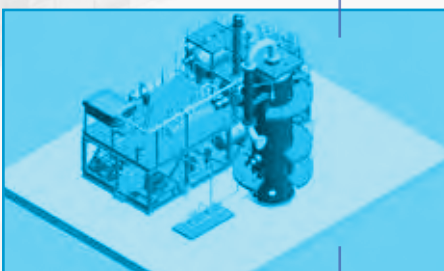
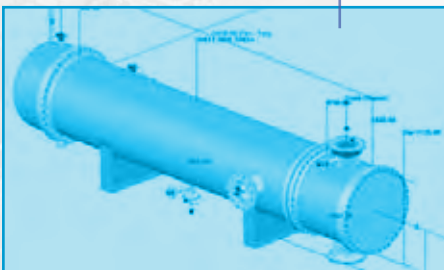




THREE SPECILITIES ONE WORD: OCS ENGINEERING

OCS can provide engineering, technologies and management for the Oil & Gas Industry. OCS staff is able to manage mechanical calculations of Pressure Equipment:

- ▶ POWER (PGB and WHB) – Process & Thermal Design
- ▶ OIL (Desalter) – Process Engineering
- ▶ GAS (Pressure Swing Adsorption Process)
Process Technology with personalized solutions built according to the client's specifications



Internal professional engineers carry out mechanical calculations in accordance with the latest and major international codes and software

INTERNATIONAL CODES

ASME, EN-13445, VSR/VSG, AD2000, MERKBLATTER, PD-5500, CODAP, STOOMWEZEN, IBR, TEMA, EAC, API

SOFTWARE

- ▶ Thermal/Process Design: PROPRIETARY
- ▶ Mechanical Design: COMPRESS CODEWARE
- ▶ Preparation of Drawings: AUTOCAD
- ▶ Finite Elements Analysis: CREO



STRONG POINTS

PRESSURE EQUIPMENTS

PRESSURE VESSELS

- Drums & Columns
- Reactors
- Vessels
- Steam Drums
- Dampeners
- Separators

HEAT EXCHANGERS

- Shell & Tube Heat Exchangers
- TLE (Transfer Line Exchangers)
- Decomposers

CONSTRUCTION MATERIALS

We are more competitive on high thickness and big dimensions and we are able to fabricate vessels in:

- Carbon steel
- Low alloy steel
- Nickel alloys
- Stainless steel
- Cladded steel
- Aluminum

APPLICATION FIELDS

We fabricate Pressure equipments for the Oil & Gas sector:

- Onshore Oil & Gas
- Offshore Oil & Gas
- Refineries
- Petrochemical Plants
- Chemical Plants
- Power Generation Plants
- Hydrogen, Ammonia and Methanol Plants

OCS ENGINEERING & TECHNOLOGY

BOILERS – with Thermal Design

- Fire Tube Boilers (PGB - Process Gas Boiler and WHB - Waste Heat Boiler)
- Water Tube Boilers

OCS Capabilities:

<i>Maximum thickness:</i>	<i>--> 250mm</i>
<i>Maximum diameter:</i>	<i>--> ø 8500 mm</i>
<i>Maximum shipping weight:</i>	<i>--> 550 tons</i>

BIG DIMENSIONS

HIGH THICKNESS

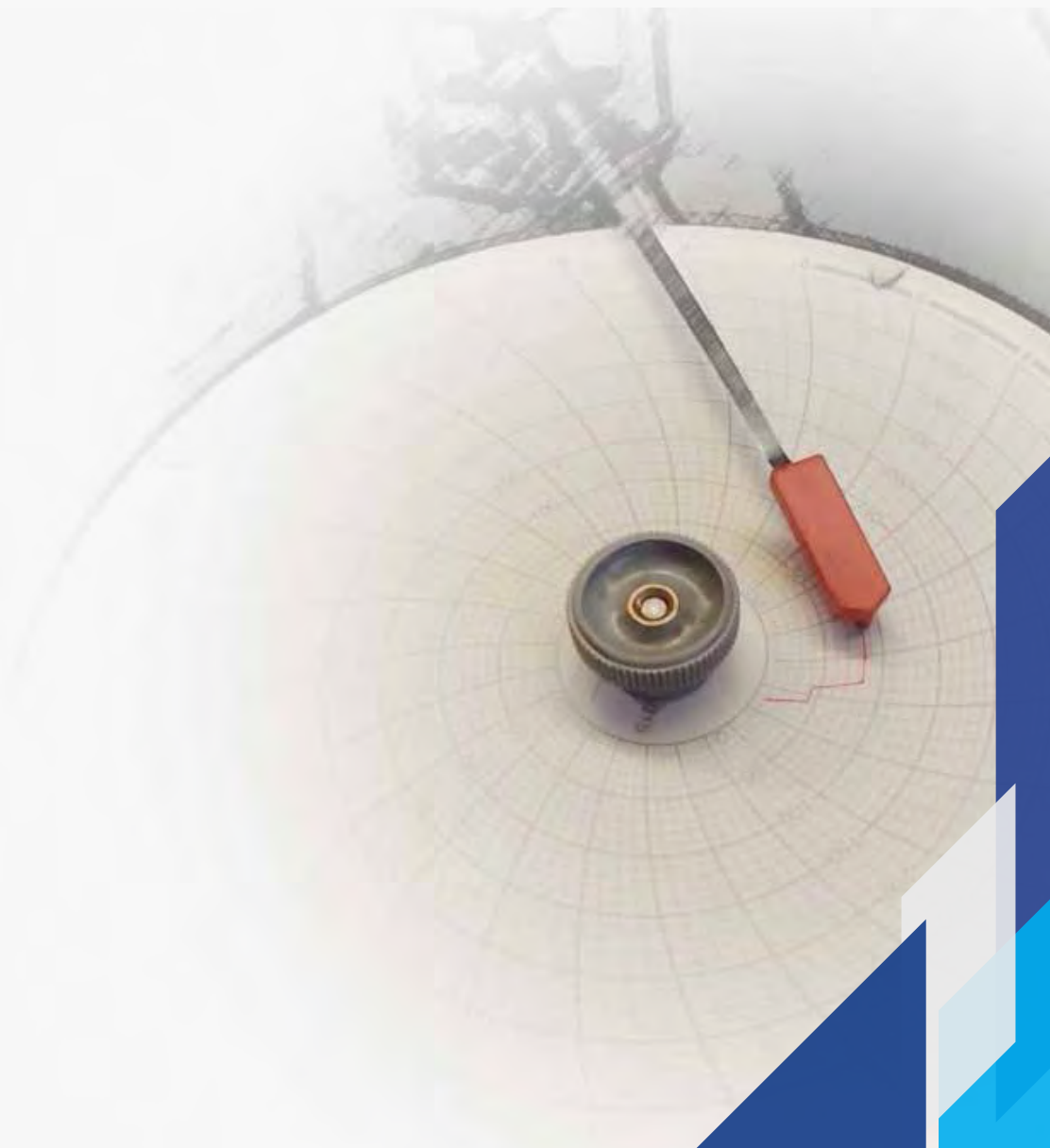
INSPECTIONS AND TESTS

Tests are performed by OCS personnel with national and international qualifications.

Standard **in-house NDT - Non destructive tests:** radiographic, magnetic particle examination, ultrasonic, dye penetrant examination, visual and physical, hydraulic and helium tests.

Upon request, other tests can be performed in accordance with International standards.

Destructive Tests DT (such as tensile and bending, impact tests) are carried out by external qualified laboratories.



QUALITY SYSTEM

OCS Quality System is certified by ISO9001

The Quality Program is continuously implemented throughout all the fabrication processes, in accordance with our customers' needs.



In-house Quality Staff ensures that our Products are in line with the major Standard Regulations in the Oil & Gas sector as well as with the Certifications to export everywhere!



HEALTH, SAFETY & ENVIRONMENT

OCS is firmly committed to provide its personnel, and whoever involved in its business, with a safe and healthy workplace.
Protecting the environment is another key issue for us.



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In compliance with Legislation and Regulations, OCS has adopted an HSE Policy and system.

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