

COMPANY PRESENTATION

2024



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The Group



Walter Tosto Company



Refining



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Main Equipment & Capabilities



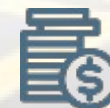
Engineering & Design



Welding



Quality



Investments

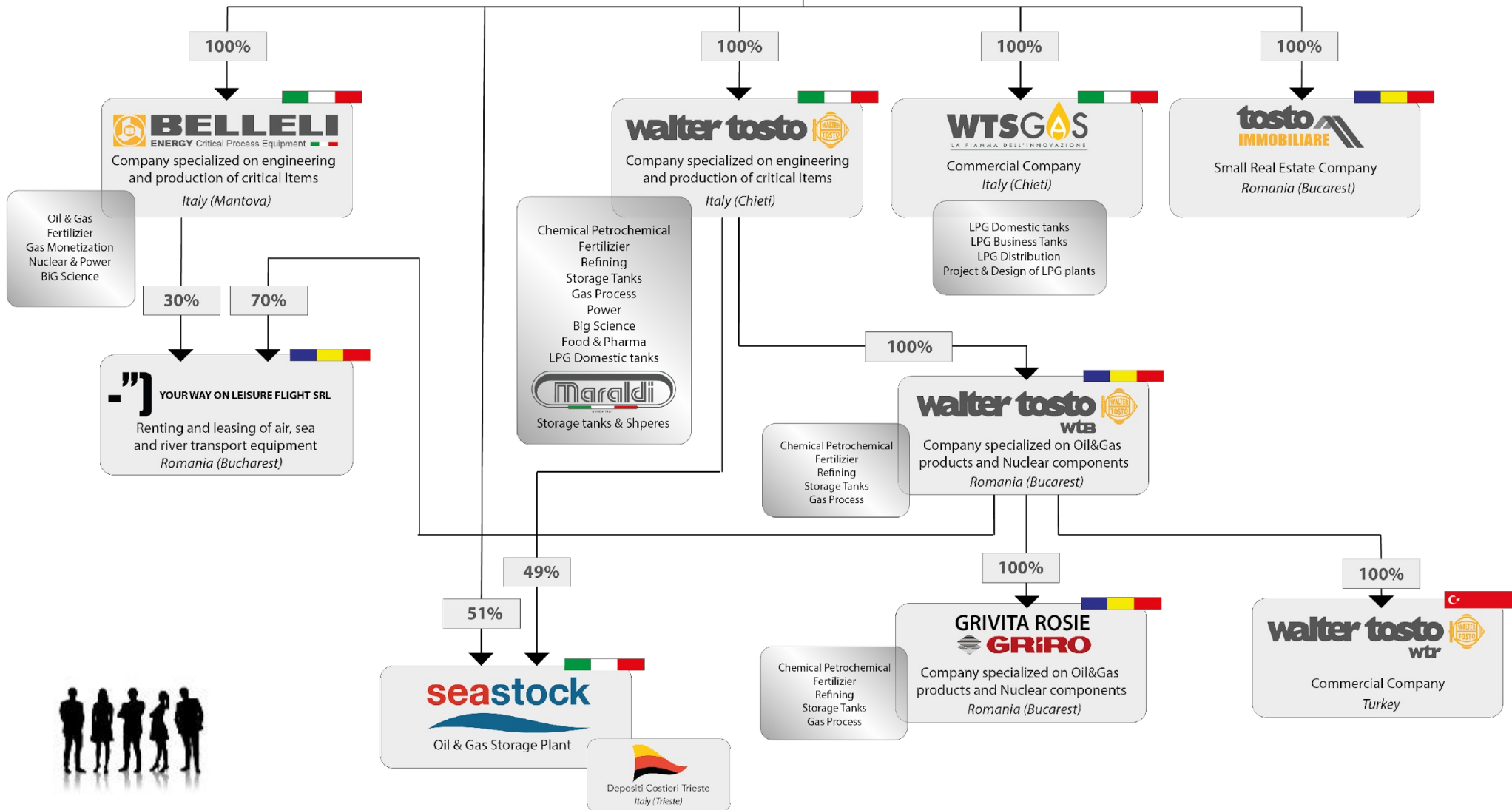


Human Resources



Tosto Group

tosto srl
Holding Company - Italy (Chieti)



Total Employees 1300





Walter Tosto Company



Walter Tosto Company



340.000 sqm Workshops



110 ml € Turnover



more than 650 Employees



Walter Tosto Company

Sea Front Workshop



Wide Machine Park



60 Years



Facts and Figures



Employees:
650



Investments:
75,000,000 € in 5 years



Turnover:
110,000,000 €



Equity and Reserves:
40,000,000 €



Assets:
255,000,000 €



Order Portfolio as 30/09/2023:
520,000,000 €





Refining

Crude Oil Distillation unit
Vacuum distillation unit
Naphtha hydrotreater unit
Catalytic reforming unit
Alkylation unit
Isomerization unit
Distillate hydrotreater unit
Amine gas treater, Claus unit, and tail gas treatment
Fluid catalytic cracking (FCC) unit
Hydrocracker unit
Visbreaker unit
Delayed coking



Chemical & Petrochemical

Ethane cracking: PE/HDPE/LDPE/PP
EB/SM Styrene
Ethylene Oxide (EO)
Ethylene Glycol (EG)
PVC
Propylene Oxide (PO) and
Tertiary Butyl Alcohol (TBA)
Ammonia
Methanol
Urea



Gas Process

Natural GAS Processing (NGL)
Liquefied Natural GAS (LNG)
Gasification Plant
LPG Storage
GAS to Liquid (GTL)



Power

Conventional
Nuclear
Renewable



Licensors



Refining



Chemical & Petrochemical



Gas Process



Power



TOPSOE

ExxonMobil



wood.



TOPSOE





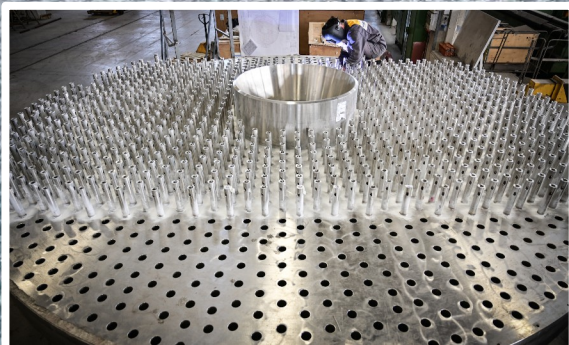
Refining Products





End user: Thai Oil JV Petrofac/Samsung/Saipem
Plant type: Refinery Thailand DAO LC-MAX
Diam: 4.900 - Thk: 279+5 - Weight: 2.034.100





End user: Thai Oil JV Petrofac/Samsung/Saipem
Plant type: Refinery Thailand DAO LC-MAX
Diam: 4.900 - Thk: 279+5 - Weight: 2.034.100





1° and 2° Stage Reactors
Technip Italy
Bapco – Bahrain
Weight 1.331.500 kg



HP HT Separators
Technip Italy
Bapco - Bahrain



HYDROTEATING REACTOR

Weight = 1.458.860 kg

Material = SA 542 Type D Cl4a + WO SS347

Internal Diameter = 5486,4 mm

Thickness = 222.3 + 4.5 WO mm



Hydrocracking Heavy Wall Reactors

Foster Wheeler USA – Barrancabermeja Refinery – Colombia

Weight 1.001.500 Kg



Catalytic Reformer Reactor
Fluor Enterprise
USA





Vacuum Column

Bechtel Corporation – Cop Wood River Project (USA)



**Deisohexanizer Column
Midor Refinery Expansion project
Technip Italy**





Deisohexanizer Column
Enoc - Jebel Ali Oil Refinery

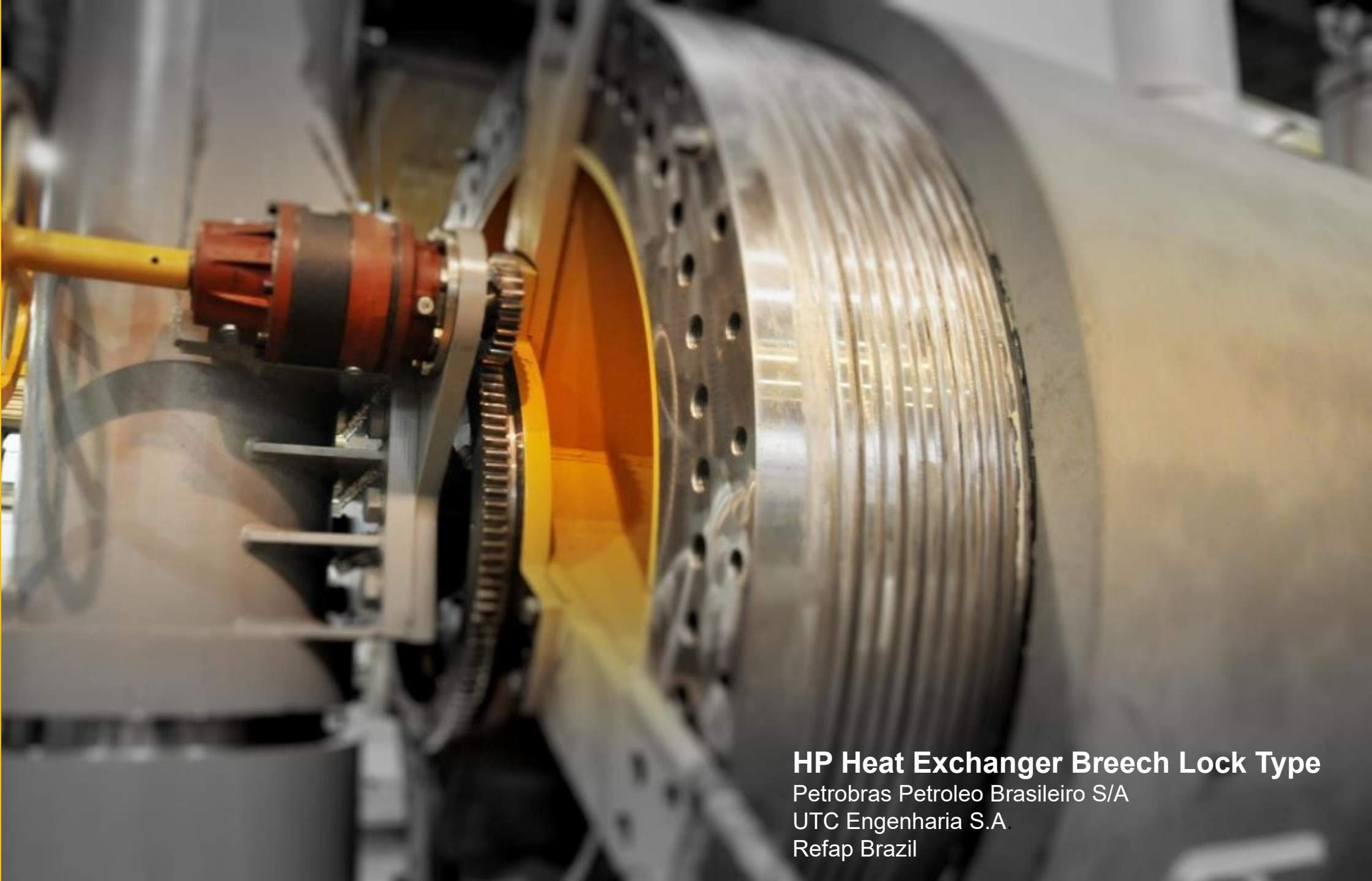




Coke Drum

CB&I Lummus Reficar Cartagena Refinery Expansion proj. - Colombia





HP Heat Exchanger Breach Lock Type

Petrobras Petroleo Brasileiro S/A

UTC Engenharia S.A.

Refap Brazil

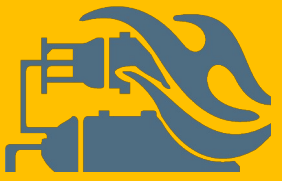




Chemical & Petrochemical



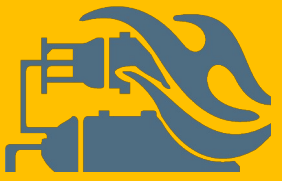
Chemical & Petrochemical



Anhydride Maleic Reactor Polynt, Ravenna (Italy)



Chemical & Petrochemical



Oxychlorination Reactor
Shinetsu VCM - Rotterdam, The Netherlands.



walter tosto

CLAVE: 0004251-19-01-01
NO. INC.: 8201-1-01-01-01-01-01-01
MANUFACTURER: WALTER TOSTO S.p.A.
COM. TAG. INC.: 01-01-01-01-01-01-01
A. 2010-01-01-01-01-01-01-01
DIMENSIONI (LxPxD): 32,240 x 3,700 x 1,500 mm
GROSS WEIGHT (kg): 108,000
NET WEIGHT (kg): 107,000
CAUTION: WITH OPEN FLAMES
DO NOT EXPOSE TO DIRECT SUNLIGHT

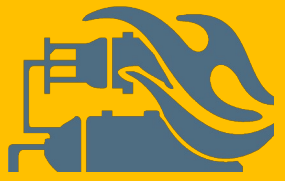


Syngas Effluent Coolers
Saudi Aramco – Arvos
Jazan Plant – Saudi Arabia



Feed Vaporizer
Feed-Effluent Exchanger
HP Steam Generator
Sinopec - Shanghai China





**Chemical &
Petrochemical**

Primary Reactor

Tianjin Dagu Chemical Co.
Shaw Stone & Webster Int. Badger Technologies



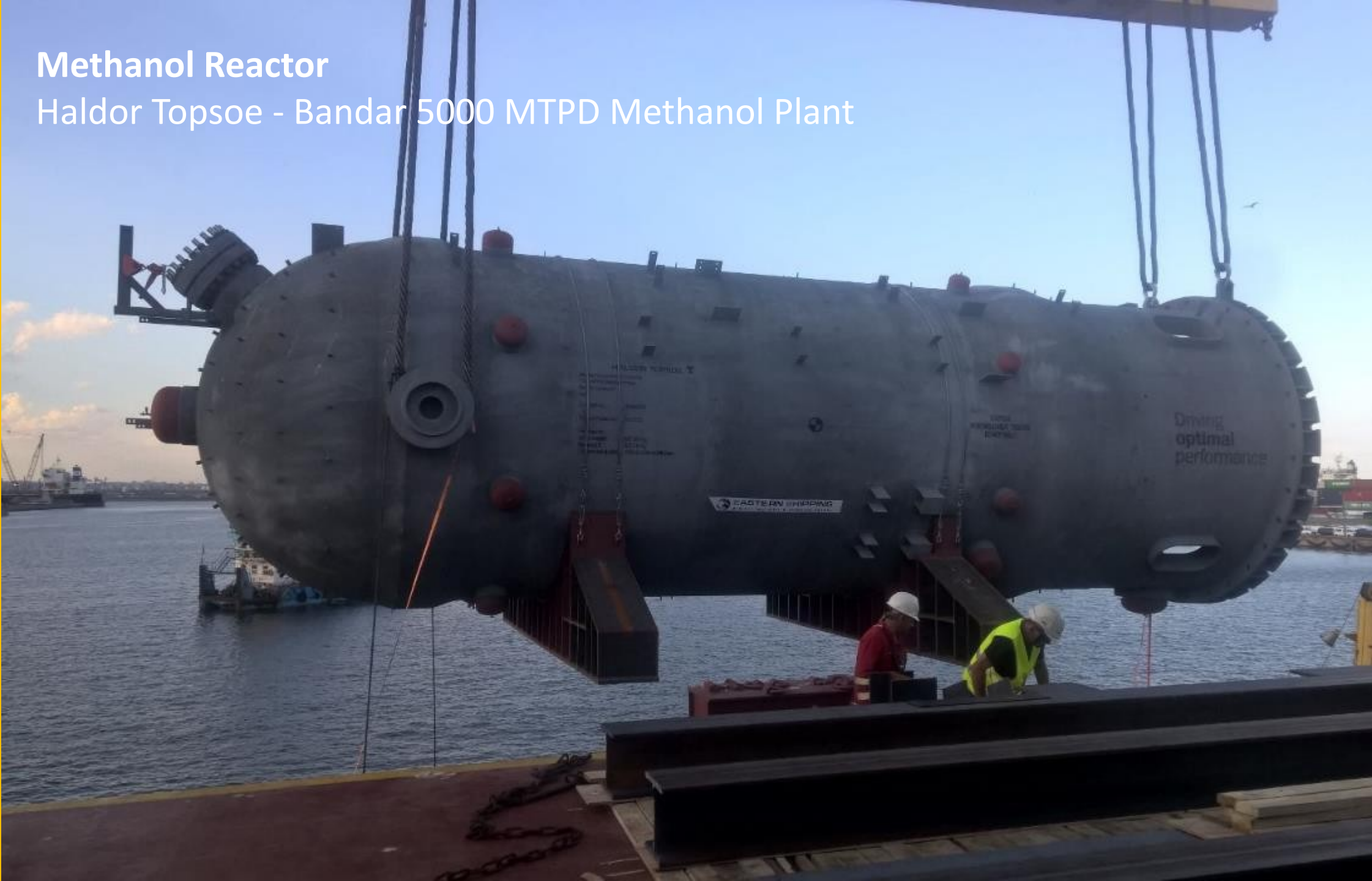
Methanol Reactor

Air Liquide Global E&C Solutions – Yuhuang Chemical Inc. USA



Methanol Reactor

Haldor Topsoe - Bandar 5000 MTPD Methanol Plant



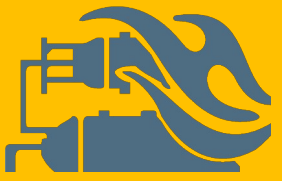


Waste Heat Boiler
Haldor Topsoe
End User Sabc -Russia



Haldor Topsoe Secondary Reformer
JSC Shchekinoazot - Russia





Chemical & Petrochemical



Stacked Heat Exchanger (three-car-garage)
Tianjin Dagu Chemical Co.
Shaw Stone & Webster Int.Badger Technologies



Chemical & Petrochemical



Ethylene Fractionator
CB&I - Ingleside Ethylene Project (USA)





Gas Process



HP Absorber – 1400 tons
Abu Dhabi Gas Dev Company
Shah Gas Refinery - UAE



Gas Process

LPG Bullets

Lloyd Jones Construction

Petreddec LPG Terminal Port Luis - Mauritius



Gas Process

Ethane Storage Bullets Braskem Idesa Sapi



Gas Process

Heavies Removal Column

Bechtel International INC.
Wheatstone LNG (Australia)



Gas Process

Feed Separator

Bechtel International INC.
Wheatstone LNG (Australia)



walter tosto

CLIENT: BECHTEL INTERNATIONAL INC
PROJECT TITLE: WHEATSTONE PROJECT LNG PLANT
LOCATION: ONSLOW - AUSTRALIA
P. O. No. 25AST-140-POB-KMAD - 00003
EQUIPMENT No.: 1 Y - 1704
ITEM DESCRIPTION: HEAVY'S REGIONAL COLUMN FEED SEPAR
NET WEIGHT (KG): 319,200
GROSS WEIGHT (KG): 313,512
DIMENSIONS (CH): 1,384.5 x (W): 580.5 x (H): 580.5
VOLUME (M³): 427.30





Power





Feed Water Heaters

Cairo Electricity Production Company
PGESCo (Bechtel)





Polysilicon Reactors

PPPE - China



Big Science



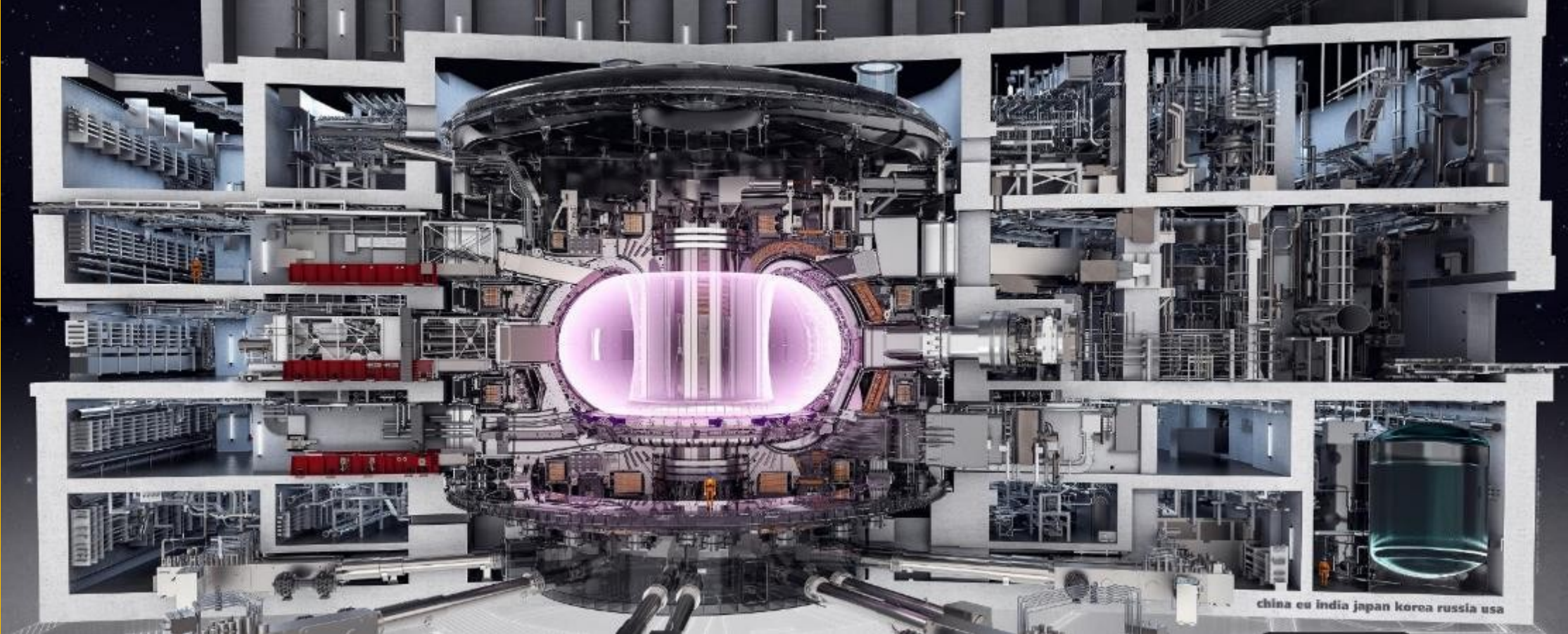
Big Science





The ITER Project

The ITER vacuum vessel is located inside the cryostat of the ITER device and its basic function is to operate as the chamber that hosts the fusion reaction. Within this torus-shaped vessel, plasma particles collide and release energy without touching any of its walls due to the process of magnetic confinement. The vacuum vessel is composed of nine sectors made of thick special grade stainless steel and each sector is 11 metres high, 6.5 metres wide and 6.5 metres deep. All of the sectors are similar and are built with double-walls containing the bolted- on shielded plates with a pressured inter-space which combine to attenuate the thermonuclear flux so as to avoid overheating of the superconducting coils. The weight of each sector is approximately 500 tonnes and the weight of the entire component, when welded together, will reach an impressive total of 5000 tons which is equivalent to the weight of the Eiffel Tower.



Big Science



The ITER Project

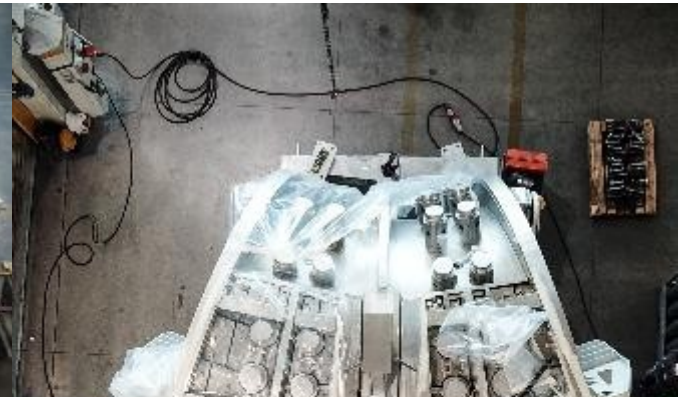




The ITER Project

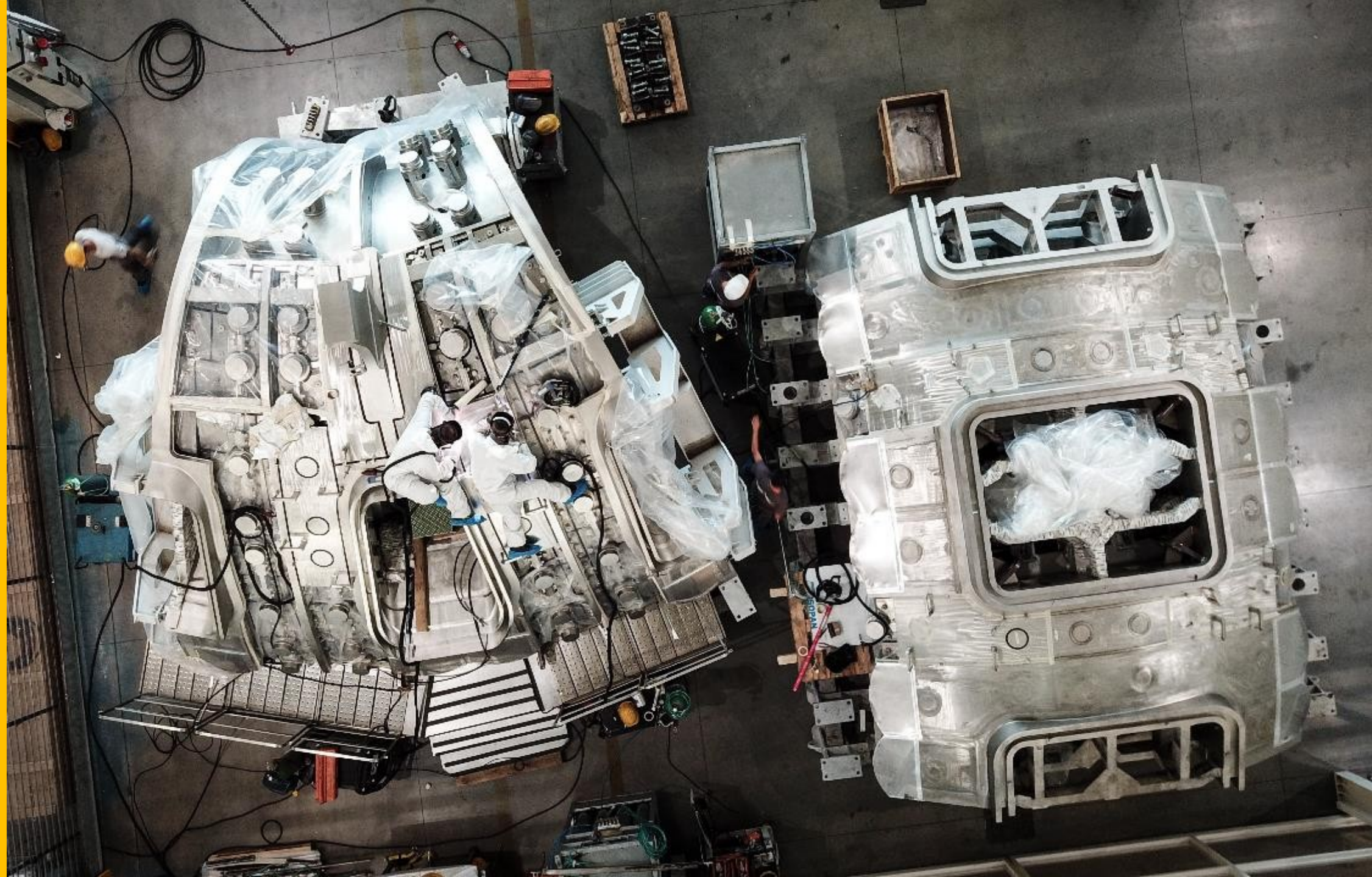
The ITER device promises to be the largest and most powerful fusion reactor in the world today. The ITER project has global significance and is sponsored by the European Union, Japan, Russia, the United States of America, China, South Korea and India.

The AMW Consortium is responsible for the supply of the EU Vacuum Vessel Sectors (5 out of 9). The ITER Vacuum Vessel is a hermetically sealed steel container that confines the plasma. It is one of the most important and technologically challenging components of the ITER project in view of its complexity, its size, the degree of precision and the amount of welding required.





Big Science





Big Science

ITER Vacuum Vessel
ITER Project - Caradache - Francia

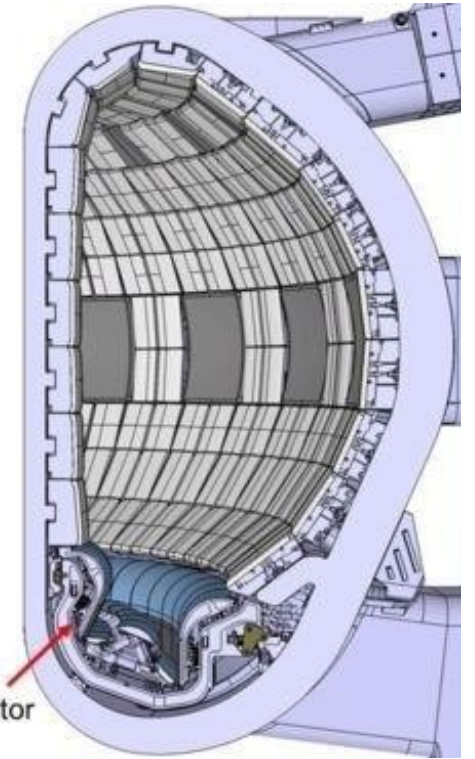




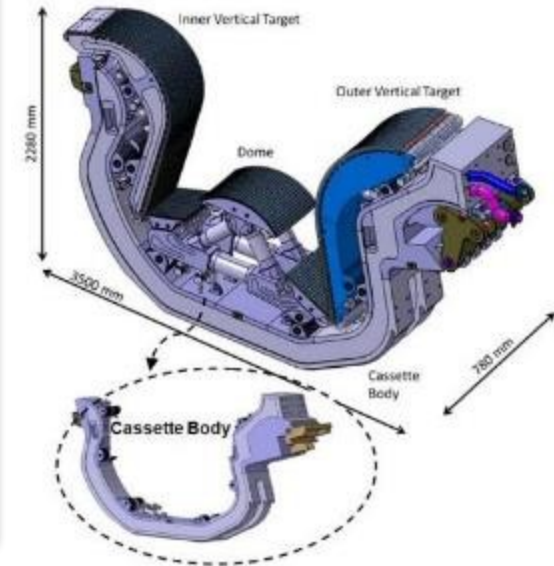
FUSION
FOR
ENERGY

The ITER Cassette Body is located at the bottom of the vacuum vessel. It extracts heat and ash produced by the fusion reaction, minimizes plasma contamination, and protects the surrounding walls from thermal and neutronic loads.

Walter Tosto has designed and manufactured a Cassette Body Prototype for a possible series of 58 items.



Divertor

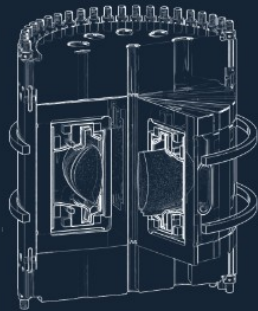


SPARC

The first Nuclear fusion demonstration plant, whose task is confirming the correct functioning of the magnets for the toroidal configuration and the achievement of a positive net energy balance where the energy produced is greater than the energy consumed. It will be built in Devens, Massachusetts (USA) by 2025

SPARC was awarded by the **Commonwealth Fusion Systems (CFS)**, spin off del **MIT** (Massachusetts Institute of Technology)

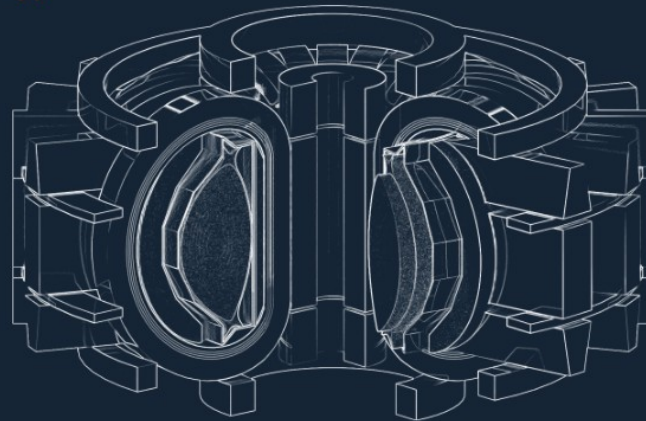
01



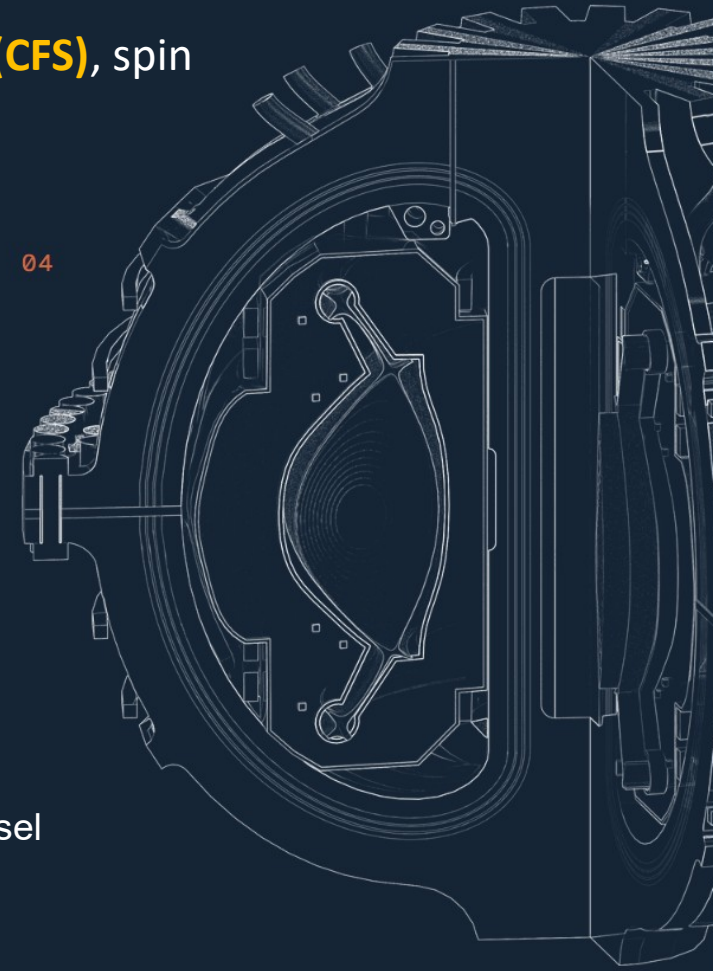
02



03



04

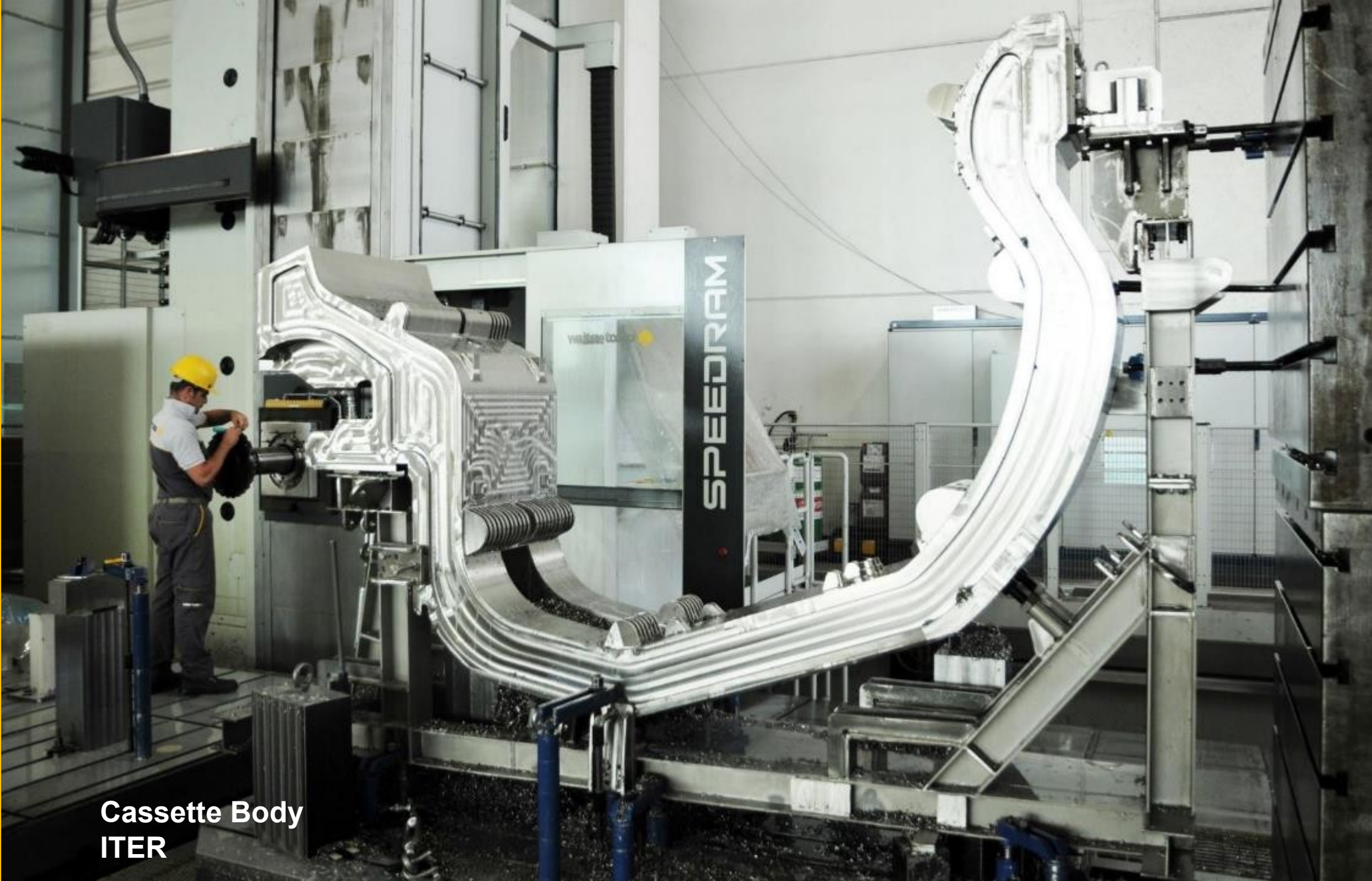


For the SPARC Project, Walter Tosto was awarded the supply of the Vacuum Vessel and accessory parts of the internal structure.





Big Science



Cassette Body
ITER



JT-60SA TF COIL CASINGS MANUFACTURING HIGHLIGHTS



In order to achieve the required dimensional tolerances, the casings are machined at the final stage in a temperature-controlled environment

The JT-60SA superconducting tokamak is being constructed in Japan under the Broader Approach agreement between Japan and the EU.

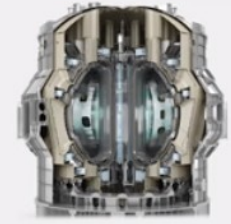
JT-60SA is a fusion experimental project designed to support the operation of ITER and to investigate how best to optimise the operation of fusion power plants that are built after ITER. It is a joint international research and development project involving Japan and Europe, and is to be built in Naka, Japan using infrastructure of the existing JT-60 Upgrade experiment. SA stands for "Super Advanced", since the experiment will have superconducting coils and study advanced modes of plasma operation.

Walter Tosto SpA has been designated by ENEA for supplying 18 Toroidal Field coil casings for JT-60SA, to be furtherly delivered to ASG Superconductors (Genoa, Italy) and Alstom (Belfort, France).



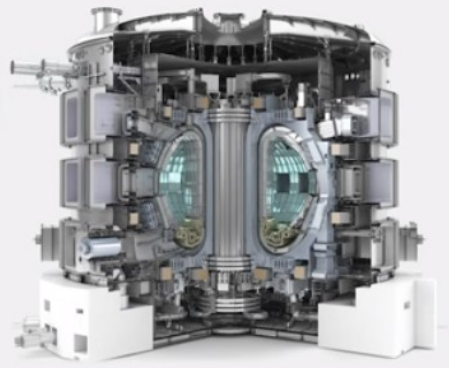
JT-60SA

2600 TONNES
SIZE: 13,7 x 15,4 M
PLASMA VOLUME: 130 M³



ITER

23000 TONNES
SIZE: 30 X 30 M
PLASMA VOLUME: 830 M³





Big Science

Borexino

INFN (Istituto di Fisica Nucleare Italiana) - Italy

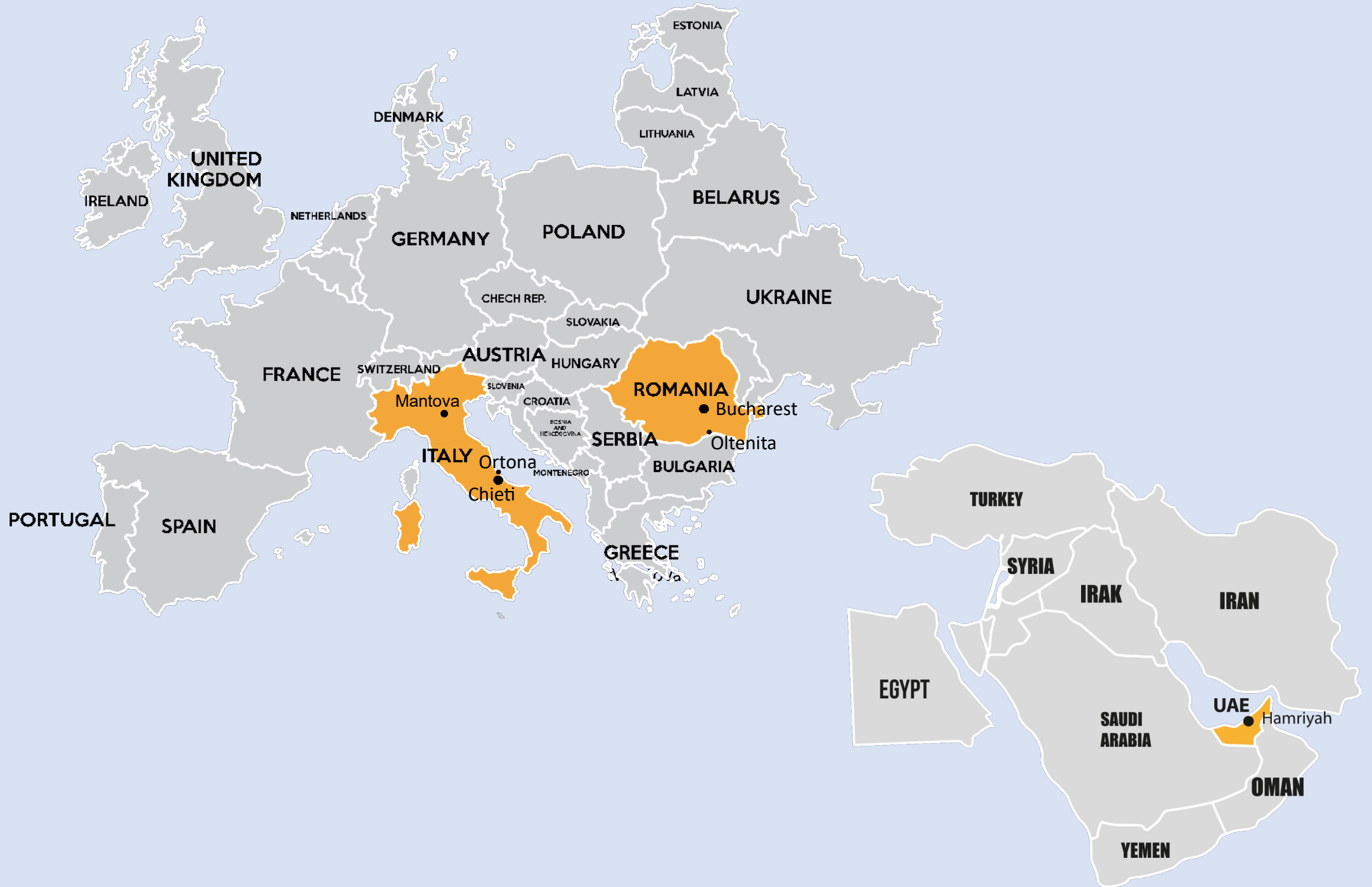




Workshop s



Workshops

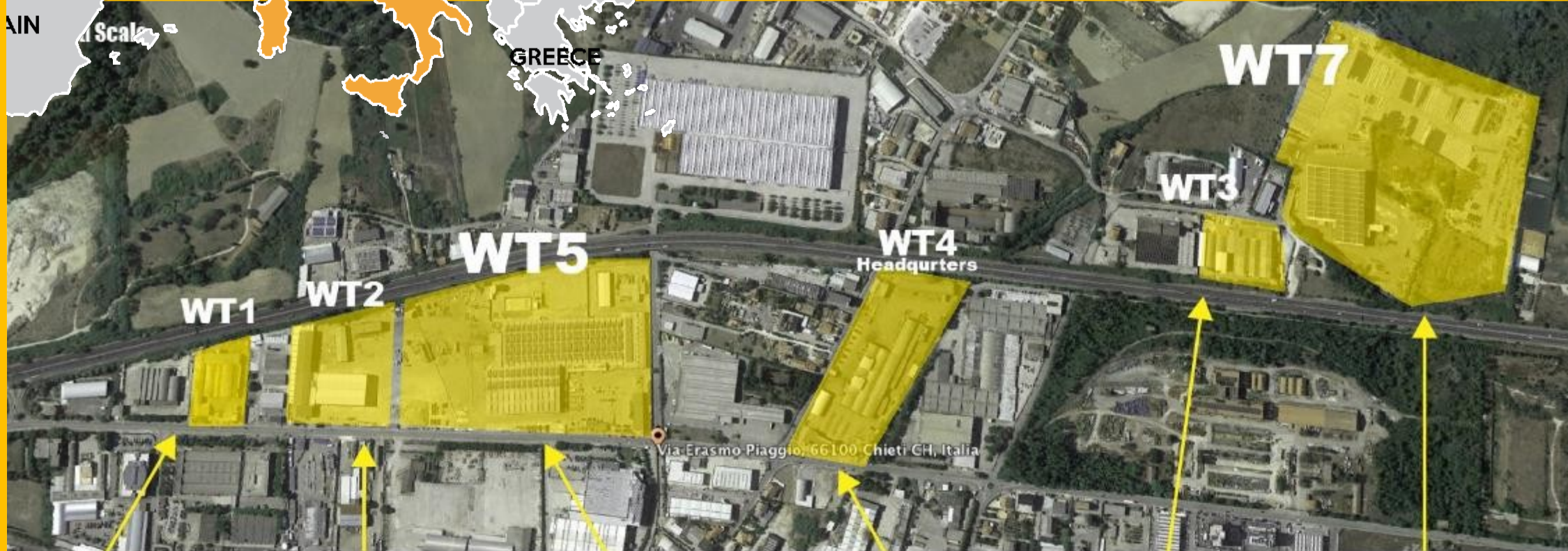


Workshops



ITALY - Chieti

The company carries out its activities on a total area of over 300.000 sqm. With eight workshops, six of which are located in Chieti Scalo and a workshop that is located directly on the Adriatic sea, in the port of Ortona, which allows the direct shipment of the items with no limitations.





ITALY – Ortona Sea Front Workshop

Walter Tosto Spa owns one sea-front workshop (WT6) directly located in the Ortona Port, on the Adriatic Sea, where there are 3 quays with the following features:

- RIVA : Height: 1.60 mt, Water Depth: 6.00 mt
- RIVA NUOVA : Height: 2.00 mt, Water Depth: 6.00 mt
- NORD NUOVA : Height: 2.00 mt, Water Depth: 7.00 mt



To date, this workshop has allowed us to complete and ship, in one piece, items with noteworthy dimensions. From here, in fact, it is possible to ship items with no diameters limitation. Furthermore, with over 9.000 sqm of covered facilities, Ortona's 3 covered spans are each equipped with double overhead cranes with unique lifting capacities. The significant dimensions of our furnace for Post Weld Heat Treatment (32mt x 11mt x 10mt) allows us to minimize the quantity of localized PWHTs, while its "Cooperheat" combustion system assures a more rapid and uniform heating while allowing an accurate control of the overall temperature within the furnace (maximum deviation +5%).





ROMANIA - Bucharest

Walter Tosto WTB's infrastructure in Bucharest is now completely renewed with energy efficient improvements, new machinery equipment and modern facilities for employees.

Covered Area : 32.500 sqm

Uncovered Are : 87.500 sqm





ROMANIA - Bucharest

Fecne was acquired by the Italian company Walter Tosto SpA in 2012, which identified in the factory a potential opportunity for the continuation of its growth in the nuclear market.



Workshops



ROMANIA - Oltenita

We own a private River Port in Oltenița where we're currently building a new workshop with a covered area of 7.700 sqm and uncovered area of 72.000 sqm. All logistics are carried out by self-propelled trailers and mobile cranes, and our own access ramps to the river for roll-on and roll-off operations.





ROMANIA - Oltenita

We own a private River Port in Oltenița where we're currently building a new workshop with a covered area of 7.700 sqm and uncovered area of 72.000 sqm. All logistics are carried out by self-propelled trailers and mobile cranes, and our own access ramps to the river for roll-on and roll-off operations.





Hamriyah Workshop



Workshops

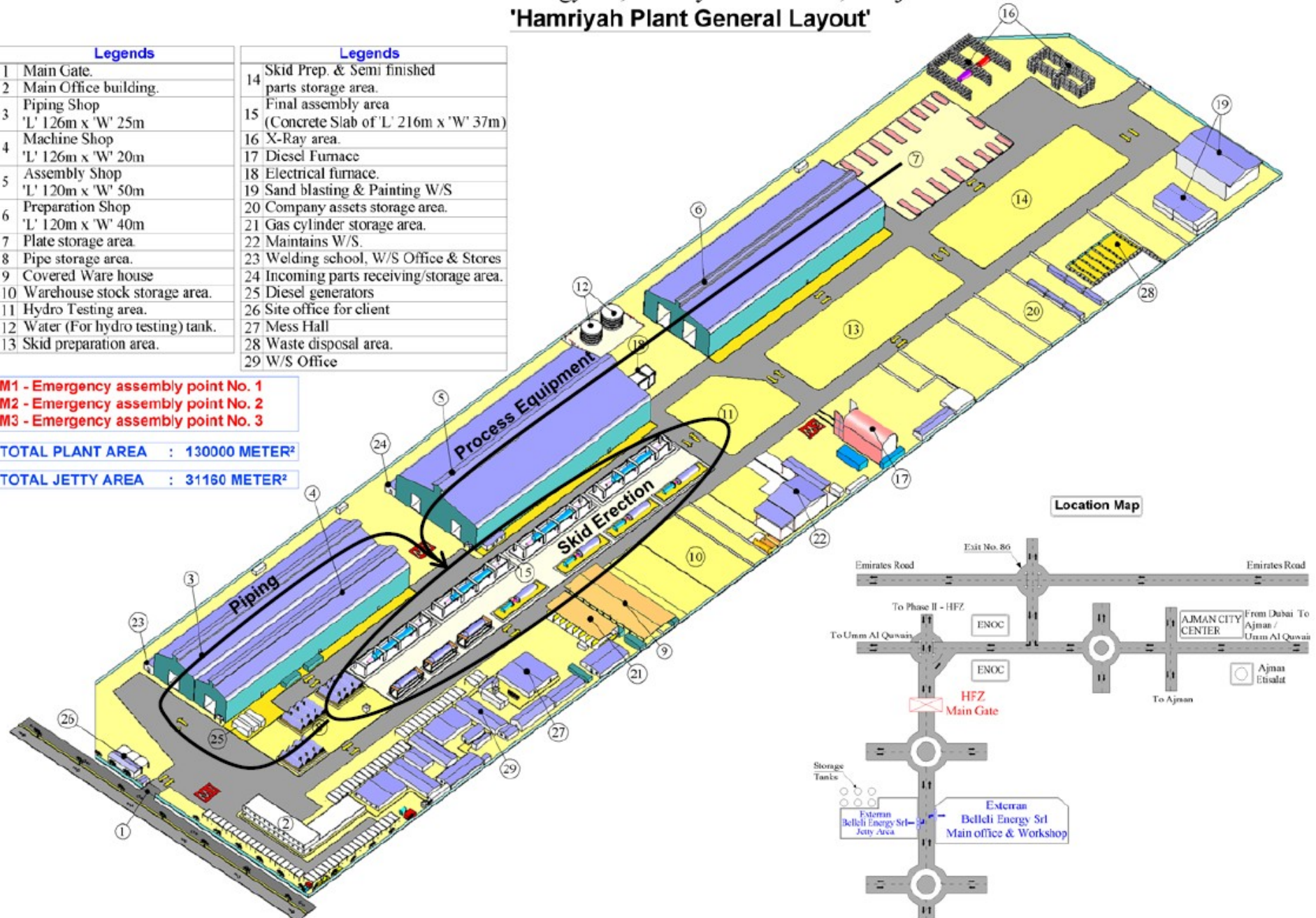
Belleli Energy Srl, Hamriyah Free Zone, Sharjah 'Hamriyah Plant General Layout'

Legends		Legends	
1	Main Gate.	14	Skid Prep. & Semi finished parts storage area.
2	Main Office building.	15	Final assembly area (Concrete Slab of 'L' 216m x 'W' 37m)
3	Piping Shop 'L' 126m x 'W' 25m	16	X-Ray area.
4	Machine Shop 'L' 126m x 'W' 20m	17	Diesel Furnace
5	Assembly Shop 'L' 120m x 'W' 50m	18	Electrical furnace.
6	Preparation Shop 'L' 120m x 'W' 40m	19	Sand blasting & Painting W/S
7	Plate storage area.	20	Company assets storage area.
8	Pipe storage area.	21	Gas cylinder storage area.
9	Covered Ware house	22	Maintains W/S.
10	Warehouse stock storage area.	23	Welding school, W/S Office & Stores
11	Hydro Testing area.	24	Incoming parts receiving/storage area.
12	Water (For hydro testing) tank.	25	Diesel generators
13	Skid preparation area.	26	Site office for client
		27	Mess Hall
		28	Waste disposal area.
		29	W/S Office

M1 - Emergency assembly point No. 1
M2 - Emergency assembly point No. 2
M3 - Emergency assembly point No. 3

TOTAL PLANT AREA : 130000 METER²

TOTAL JETTY AREA : 31160 METER²





HAMRIYAH MANUFACTURING FACILITY



PRESSURE VESSELS

Materials : CS, LAS, SS, CLAD
Weight : Up to 1000MT
Size : Up to 10M dia, 70M Lg, 300mm Thk



PIPE SPOOLS

Materials : CS, LAS, SS
INCOLLOY, MONEL

- ID Overlay & Cladding (2"~24")
- Automatic Cutting & Welding
- Pneumatic & Hydrostatic Testing



PROCESS SKIDS

- Water Injection
- Gas Treatment
- Gas Compression
- Sulfur Recovery (SRU)
- Triethylen Glycol (TEG)
- Oil Separation and Dehydration

SERVICES UNDER ONE ROOF

- Design & Detail Engineering
- Supply Chain & Logistics
- Manufacturing
- Heat Treatment
- Non-Destructive Examination
- Painting, TSA Coating
- Insulation, Refractory Lining
- Electricals & Instrumentation



CAPABILITIES



Open Area : 110,000 Sq.Mtr.
Covered Area : 20,000 Sq.Mtr.
Workshops : 3 Nos.
Open Yards : 4 Nos.



Piping Monthly : 20,000+ Inch Dia / Month
Monthly : 120,000+ Man-hours



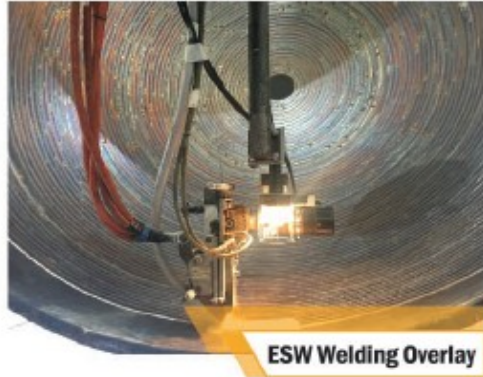
- Blasting & Painting Shops
- Radiography Bunkers
- Cranes & Boogles
- Operational 24x7





WELDING CAPABILITIES

More than 2,000 qualified welding procedures. Team of 300+ qualified welders.



ESW Welding Overlay



Automatic Pipe ID Overlay



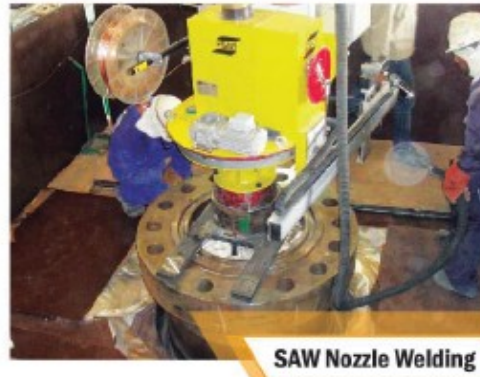
Petal to Petal SAW Welding



Automatic Tube to Tubesheet Welding



Narrow Gap SAW Tandem Welding



SAW Nozzle Welding

PIPING & MACHINE SHOP

MACHINE SHOP

- Tube-Sheet & Baffles Drilling
- Horizontal Boring Machine
- Vertical Boring Machine
- Lathes, Milling & Drilling Machines
- CNC Machines



PIPE SPOOL SHOP

- Maximized automatic welding
- ID overlay from 2" to 24" diameter
- Pipes sizes from ½" to 50" diameter
- Exotic materials like Inconel, Monel, SS, Super Duplex & Clad pipes



Workshops



ASSEMBLY SHOP

- Heavy Rolling Machine up to 125 mm thick
- EOT crane Lifting capacity up to 175 MT
- Long Furnace up to 750 °C



PREPARATION SHOP

- 200MT Press for Bending Pressing up to 40mm thickness
- CNC Cutting machine
 - 200mm Carbon Steel
 - 80mm Stainless Steel

- Columns
- LPG Bullets
- Pressure Vessels
- Heat Exchangers
- Heavy Wall Vessels
- Compression Equipment Packages



- CNC Beveling machine
 - Single V
 - Double V
 - J Groove
- Medium Rolling Machine up to 40mm thick





PORT & LOADOUT FACILITY

Heavy Lift and RO-RO Load Out Capability	Hamriyah Port
Water Depth & Draft (Meter)	14 M & 12.5 M
Linear Meter (LM) of Bulkhead	4 L, 180 W, 15 D
Ocean Access Routing	Ship & Barge

PRESSURE VESSELS



SKIDS & PROCESS MODULES



MAJOR CLIENTS

- Acciona
- Alstom
- Arabtank Terminals Limited (ATTL - Yanbu)
- Basrah Gas Company
- CMI Belgium (Currently John Cockerill)
- China Petroleum Engineering & Construction Corporation (CPECC)
- Crescent Petroleum
- Daewoo E & C
- Dana Gas
- DUGAS
- Emirates General Petroleum Corporation
- Fisia Italmimpianti
- Flour Corporation
- Hitachi Zosen Corporation
- Horizon Djibouti Terminals Ltd
- Jacobs Engineering Group
- JGC Corporation
- KazakhOil Aktobe LLP
- Kuwait Oil Company
- Lukoil
- Maersk Oil
- Occidental Petroleum (Oxy)
- Pearl Petroleum Co. Ltd
- Petrobas
- Petrofac
- Petronas
- Petroleum Development Oman (PDO)
- Saipem
- Saline Water Conversion Corporation (SWCC)
- Samsung Engineering
- Saudi Aramco
- Sharjah National Oil Corporation (SNOC)
- Shell
- Sidem
- Socar Aurora
- SPETCO International Petroleum Company
- Tatweer Petroleum
- Tecnicas Reunidas
- Technip Engineering Company
- Thermo Design Engineering Ltd (TDE)
- TOTAL
- Toyo Engineering Corporation
- VOPAK Horizon Fujairah
- Zakum Development Company (ZADCO)
- Zhaikmunai LP

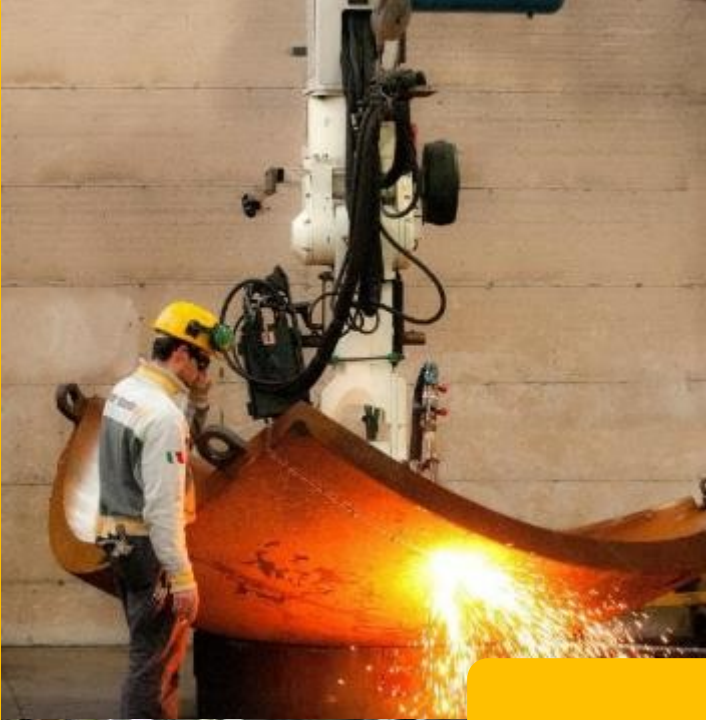




Main Equipment & Capabilities



Main Equipment & Capability



Wide Machine Park



Main Equipment & Capability



Waldrich Coburg
Axis: nr. 5
Net size : 10 mt x10 mt x 35 mt
Installed in the sea-front workshop in the
Ortona Port (Adriatic Sea)
(height: 21 mt; bridge cranes with under
hook capacity 250 tons)

Main Equipment & Capability



Rolling Machine Dino 9000 T

Pressing power (Tons) 9000/1000

Maximum rotating power (Kg/m) 1.300.000

Installed power (Kw) 1.200

Table width (maximum plate width) (mm) 3.600

Diameter of the bottom rolls (mm) 860

Diameter of top rolls (mm) 1.750



Main Equipment & Capability



PRESSING MACHINE
capacity 2000 tons

Main Equipment & Capability



SANT'EUSTACHIO VERTICAL LATHE

Platform Dia: 8.000 mm

Capacity: Up to 200 Tons

Axis: X 8.300 – Y 4.000

Z1 2.200 – Z2 2.200 – Z3 2.000

CNC: Siemens 840 D



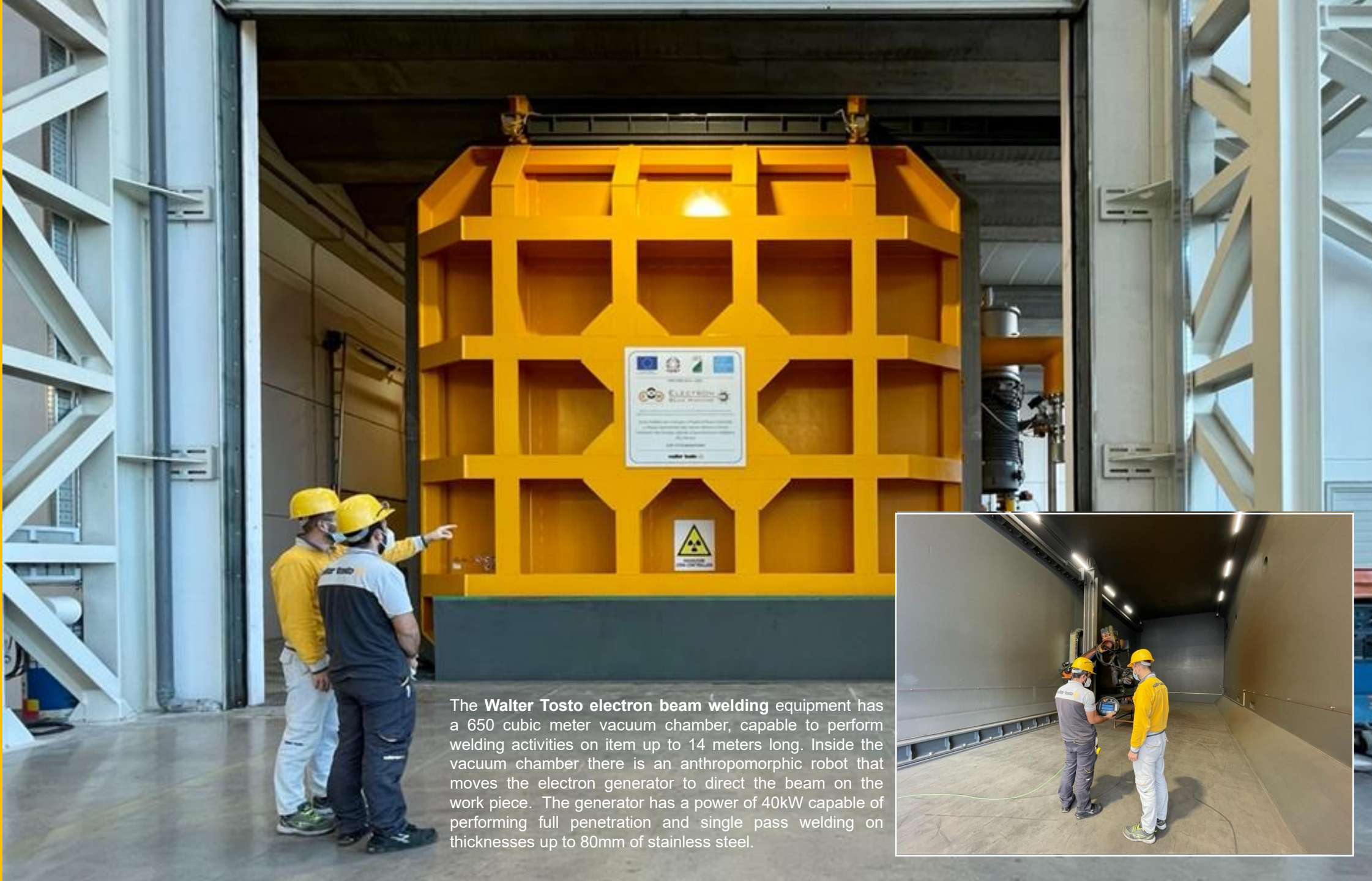
Main Equipment & Capability



CORREA VERSA

is a Gantry Milling Machine. It has 5 axes able to machine pieces up to mt 10,5 in length, 1,65 in height and 6,8 wide with very tight tolerances.

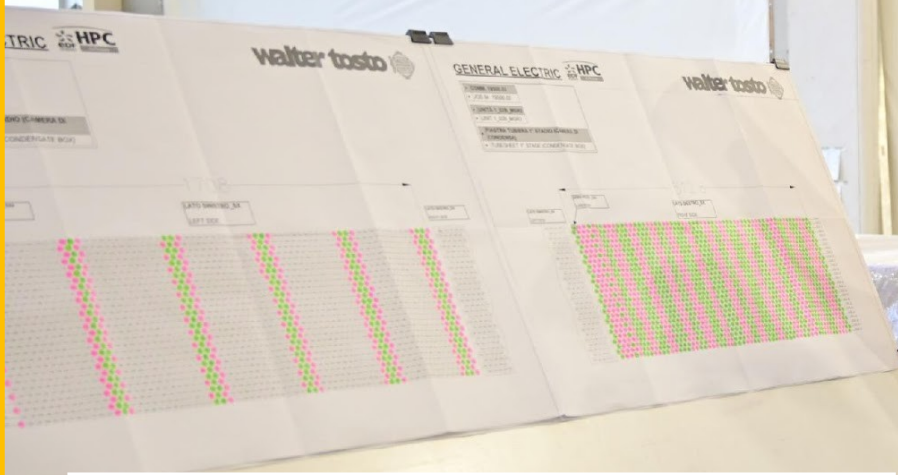
Main Equipment & Capability

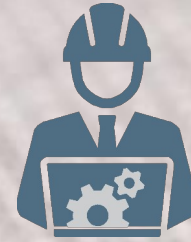


The **Walter Tosto electron beam welding** equipment has a 650 cubic meter vacuum chamber, capable to perform welding activities on item up to 14 meters long. Inside the vacuum chamber there is an anthropomorphic robot that moves the electron generator to direct the beam on the work piece. The generator has a power of 40kW capable of performing full penetration and single pass welding on thicknesses up to 80mm of stainless steel.

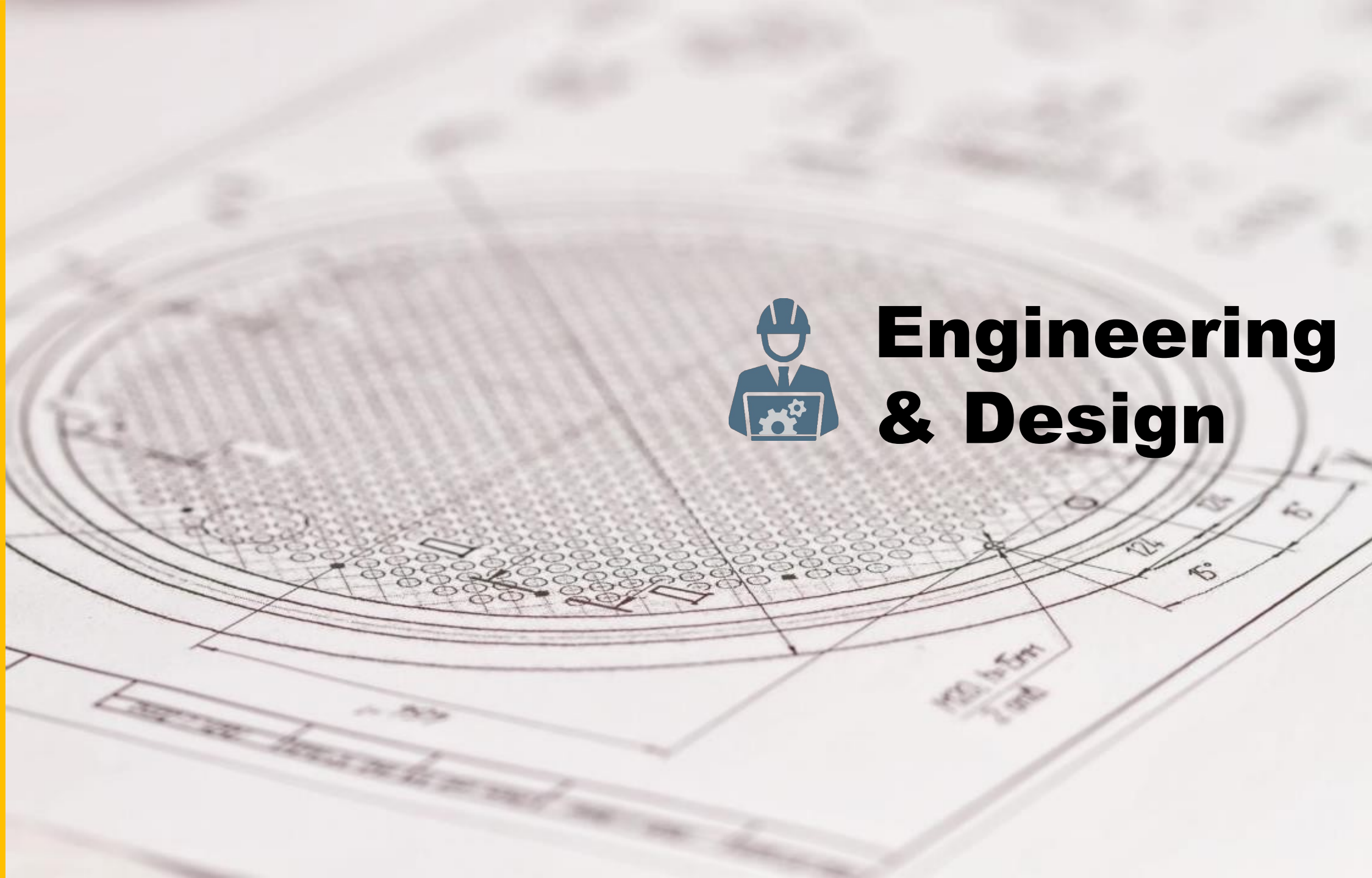


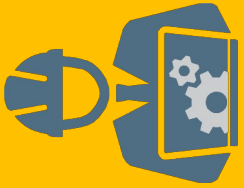
Main Equipment & Capability





Engineering & Design



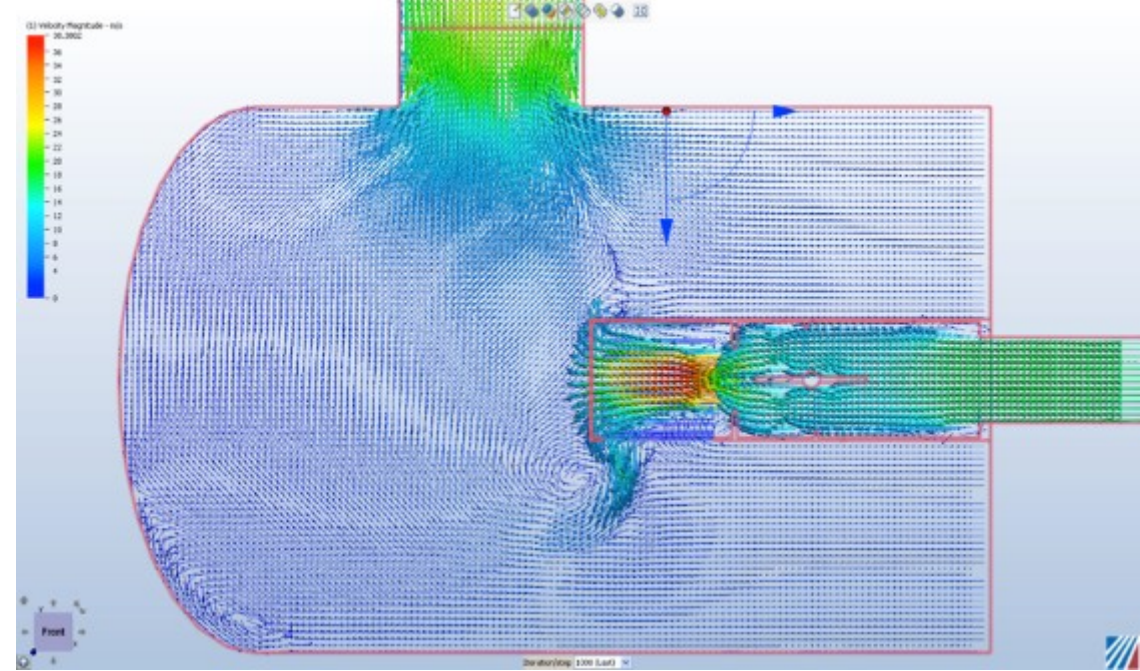


FEA

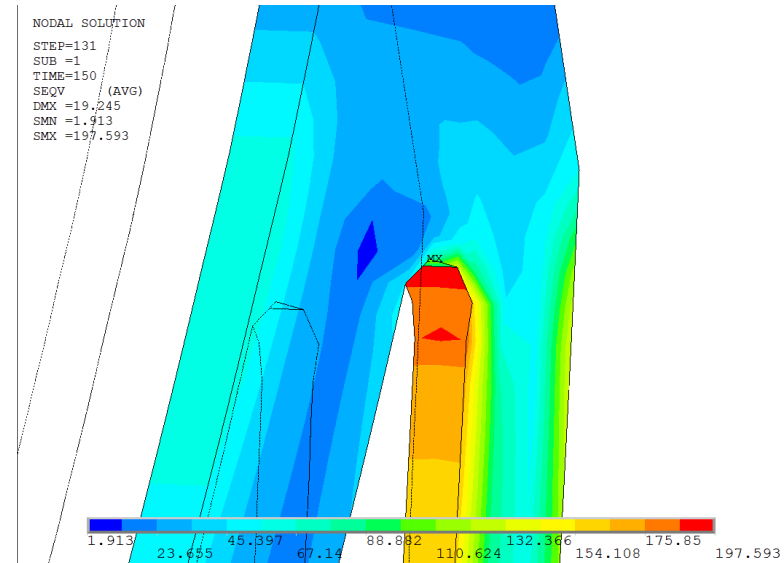
The full knowledge and the familiarity with all the existing design codes such as **ASME, BS 5500, CODAP, Stoomwelzen, AD Merkblatt and GOST** allow us to develop the best design, from the mechanical point of view, for the customer. Furthermore, the in-house presence of **FEM** experts, together with the several **ANSYS** licenses, make the **Finite Element Analysis** a powerful instrument in our hands, for the design of critical parts of the equipment. Beside the mechanical design, Walter Tosto has **strong skills** for the development of the thermal and **fluid-dynamic design** of Heat Exchangers for Oil & Gas and Power industry, starting from Process Data Sheets, ensuring all the required guarantees to our customers.

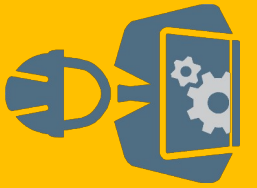
Some of the applicable design - codes and standards		
ASME-VIII Div. 1	ASME-VIII Div. 2	PD5500
AD Merk Blatter 2000	ASME I VSR	Stoomwelzen
SQL/SELO	API	CODAP
CODRES	HTRI	HEI

System Name	Purpose	Developer
Finglow	Calculation software	Finglow Ltd
CATIA V5	3D drawing calculation software	Dassault Systemes
Soild Edge	3D drawing calculation software	USG
Pro Engineer	Parametric 3D drawing program	PTS
AutoCAD	2D drawing Program	Autodesk
ANSYS	Finite Elements Analisis	ANSYS
Aspen Suite	Heat Exchangers Mec. Design - Shell & Tube Exchanger Design Rating Software	Aspentech
Sant'Ambrogio	Mechanical calculation software	Sant'Ambrogio
PAAC	Feedwater Heater and surface condenser thermal design	



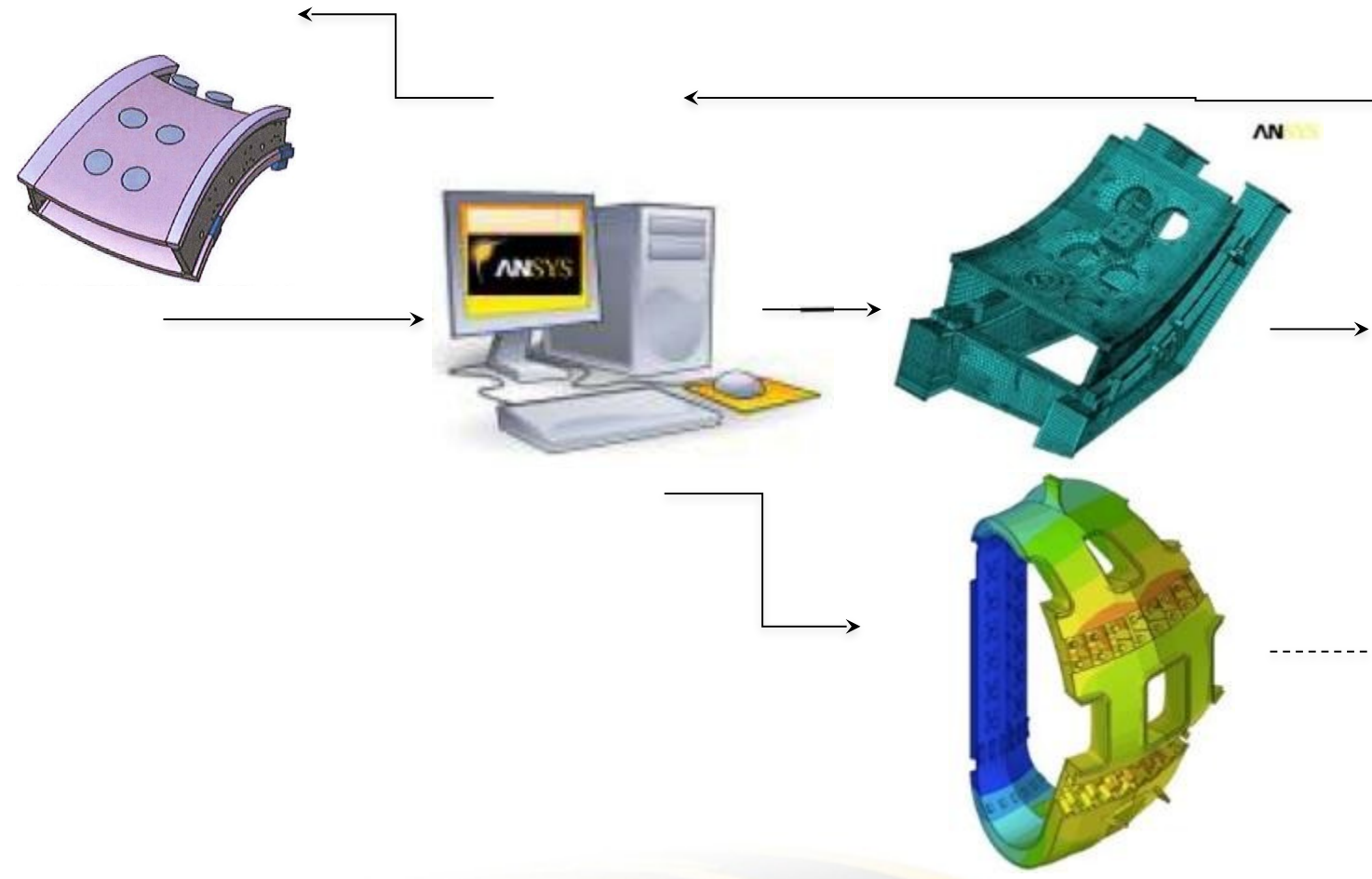
Process and Mechanical Design - Optimization of Heat Exchangers using a CFD Technique
Computational Fluid Dynamics (CFD) technique can be applied in order to optimize the critical process design and mechanical design aspects of some special heat exchangers.

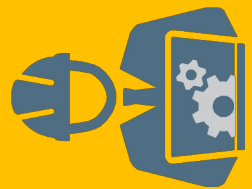




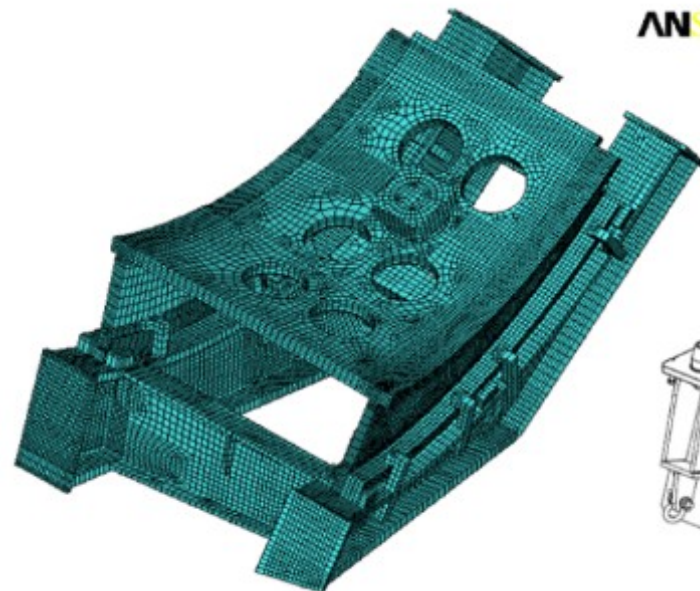
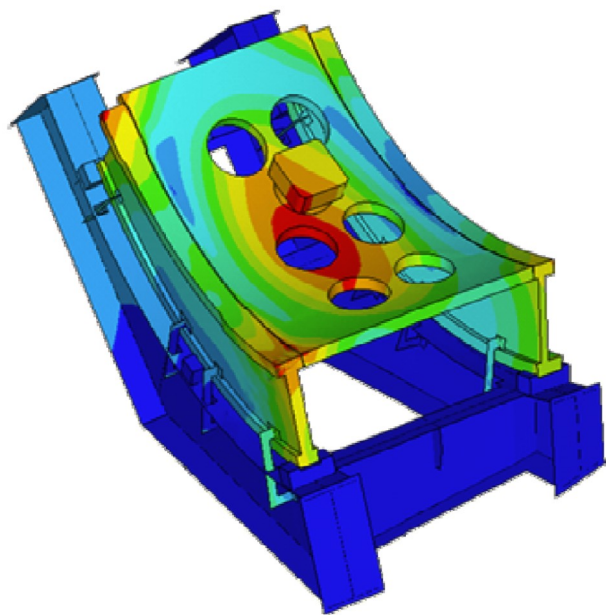
FINITE ELEMENT DISTORSION ANALYSIS

This sophisticated technique allows us to predict the deformation due to weld thermal input. As this deformation is expected, it may be managed by proper preforming process in order to match the required final geometry.

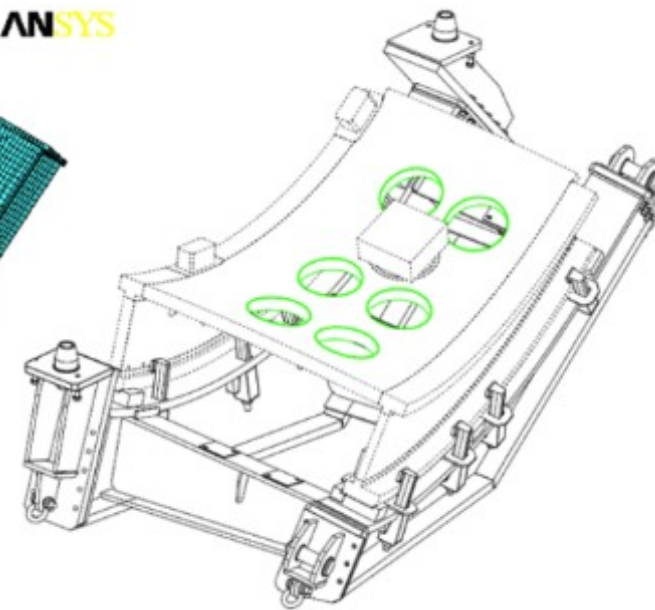


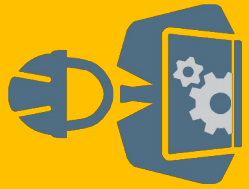


PS2 Mock-up Welding Distortion Simulation



ANSYS





Materials

Carbon Steel (CS)

Fine-grain Steel/Normalized

Cr – Mo alloys

0,5 Mo

1 Cr – 0,5 Mo

2,25 Cr – 1 Mo

2,25 Cr – 1 Mo 0,25V

Ferritic Austenitic Steel Duplex

S 31803

S 32205

Ni – Alloyed Steel

0,5 Ni

3,5 Ni

Stainless Steel

Ferritic

Austenitic

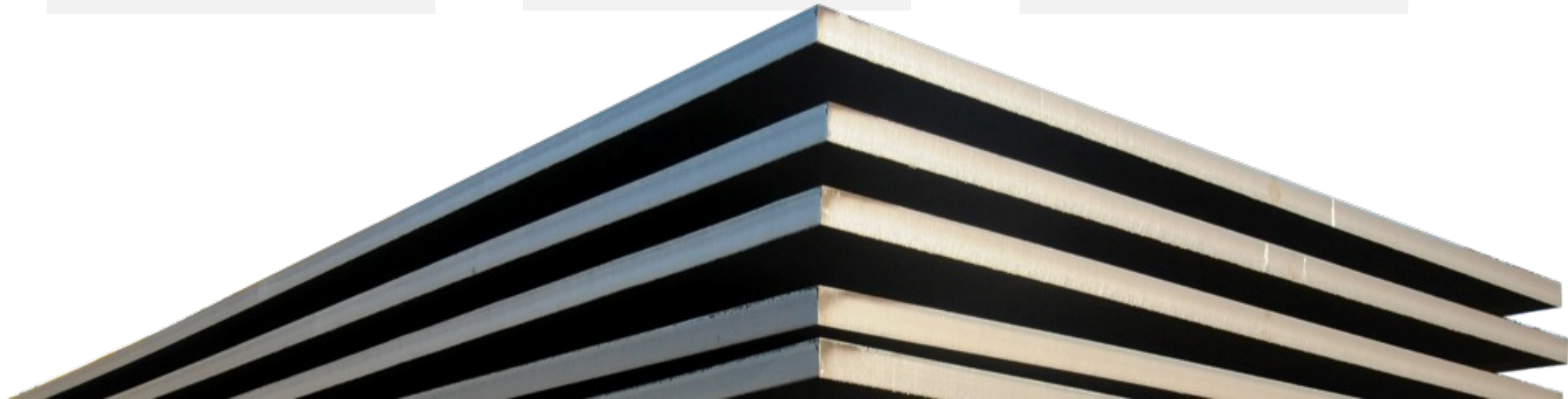
Alloy cladded

Non Ferr. Materials

Ti-Gr I/Gr. II

Copper Alloy

High Nickel Alloy





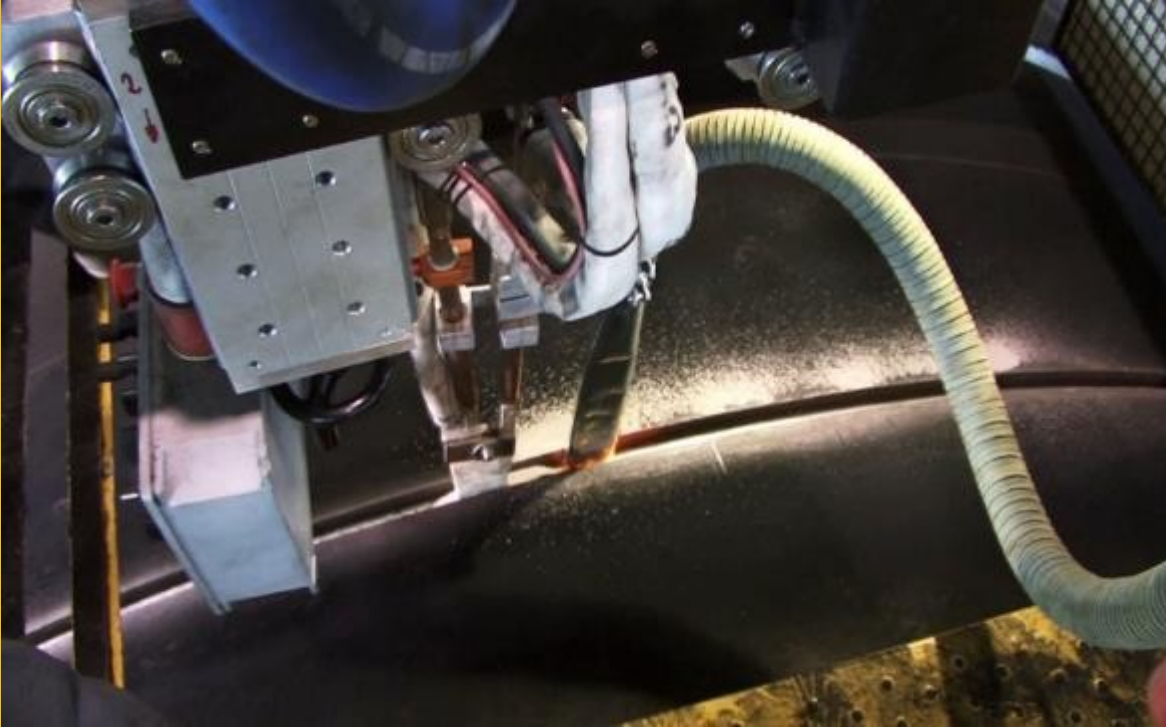
Welding



Welding



Welding process employed		Manual	Automatic
SMAW	Shielded Metal-Arc welding	X	
SAW	Submerged-Arc Welding		X
SAW STRIP	Subm.-Arc Weld. with strips		X
SAW Tandem	SAW Double Wire		X
GMAW	Gas Metal-Arc Welding	X	X
GTAW	Gas Tungsten-Arc Welding	X	X
FCAW	Flux-Cord Arc Welding	X	X
ESW	Electro Slag Welding		X
PAW	Plasma-Arc Welding		X



Welding





 **Quality**



Quality



Non-destructive testing

	IN-HOUSE	CONTRACT
UT / Ultrasonic	X	
UT / TOFD ("Time of Flight Diffraction")	X	
RT / X-Ray	X	
RT / Gamma Ray	X	
PT / Dye-Penetrant	X	
MT / Magnetic Particle	X	
HB, HV, HRC / Hardness Testing	X	
Air Pressure Testing	X	
Tightness / Leakage Testing Helium	X	
Hydro Pressure Testing	X	
Delta Ferrit Testing	X	
PMI	X	
UT Phased array	X	

Mechanical Test

	IN-HOUSE	CONTRACT
Tensile	X	X
Impact T.	X	X
Hardness	X	X
Bending	X	X
Macrotest	X	X

Others

	IN-HOUSE	CONTRACT
Disbonding		X
Microtest		X
Chemical analysis		X



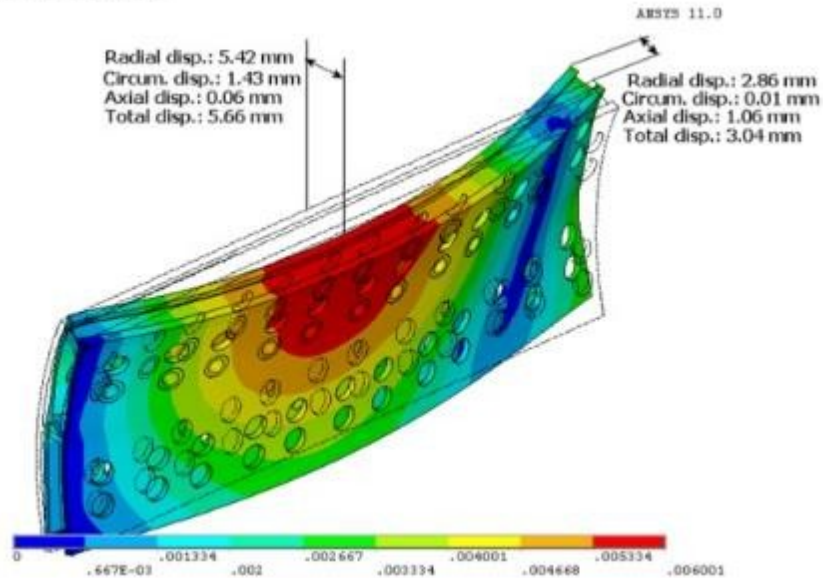


Dimensional Checking

Sophisticated dimensional tests are performed using Laser Scanner & Laser Tracker. These tests can be implemented where ultra stringent tolerances are applicable while full recordable data is requested



Def. Shape Mag. Factor: 70





Materials Traceability

Walter Tosto SPA records the barcodes of all materials (Plates, Forges and Flanges) on ORACLE Internal Computer System.

These barcodes are positioned directly on the parts by stickers and they report the following information: Job number, Product code and Description, Heat Number, Plate number, Drawing and position number, P.O.number, Supplier name, Material Test Report Number, Barcode and TAG Number, Operator name, Date. In these way, thanks to a **special device capable to read barcodes**, it's possible to have all information at any time of the manufacturing process.



walter tosto  9910201

RCV **ODL 13012** 

 **Cod. Articolo**
LN360350275009100
LAMIERA SA 516 GR 70 S=350/10 mm 2750 x 9100
&
&

COLATA 1NN84004

MATRICOLA 03.A 

TAV 1 POS 4

PO N. 201300337

FORNITORE 

CONFORMITA' 285115

 **MCIERI**
17/12/2014 16:15:30

41728





CERTIFICATES

ISO 3834-2:2008

ISO 9001:2008

ISO 14001:2008

PED MODULO H1

SELO: PRESSURE VESSELS

SELO: BOILER

CERTIFICATE OF AUTHORIZATION U

CERTIFICATE OF AUTHORIZATION U2

CERTIFICATE OF AUTHORIZATION U3

CERTIFICATE OF AUTHORIZATION S

CERTIFICATE OF AUTHORIZATION R

CERTIFICATE OF AUTHORIZATION NATIONAL BOARD

CERTIFICATE OF AUTHORIZATION N

CERTIFICATE OF AUTHORIZATION NPT

OHSAS 18001:2007





HSE

The **safety policy** of the Tosto Group is considered as an essential part of the general policy of its companies. The safety aspect is indeed placed at the same level as productivity, efficiency, quality, environment and other factors of significant importance for the company. The policy is shared among the companies, embracing all the organization levels in order to eliminate dangerous situations and behaviors that can cause accidents or injuries. Any document connected to said policy shall be available in any office or department, in order to avoid improper and dangerous situations leading to accidents and injuries.





Human Resource s

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S

Training

Yearly Master of Pressure Process Equipment: Design and Manufacturing

Walter Tosto SpA organizes Masters of 'Pressure Process Equipment: Design and Manufacturing, in collaboration with the University of L'Aquila and the IIS (Italian Welding Institute).

Details of latest Master:

- 20 students attended the Master
- 12 of them are now part of the Walter Tosto SpA staff



Human Resource



S

Training

Pressure Equipment Operator

Walter Tosto SpA is the first company to promote and activate the **Professional Qualification in Pressure Equipment Operator** in collaboration with IIS "U Pomilio" of Chieti, AIPE, CNA Abruzzo, CNA Chieti, CCIAA - Chieti, Internationalization Agency, Nexus Srl and Llyod's Register. The qualification was recognized by the Abruzzo Region and it can be obtained at the third year of the professional institute. Subsequently, students have the opportunity to do an internship in the company." .



IIS "U POMILIO" - CHIETI



Abruzzo ITALY



Lloyd's Register



CONFEDERAZIONE NAZIONALE
DELL'ARTIGIANATO E DELLA
PICCOLA E MEDIA IMPRESA
ABRUZZO



Confederazione Nazionale
dell'Artigianato e della Piccola
e Media Impresa
Associazione provinciale di Chieti





S

Training

Mechanical pressure equipment project with the Technical Institute

Walter Tosto actively collaborates with the technical institute L. Savoia of Chieti with which an ad-hoc study path involving the Mechanical address was created, in order to fully reflect the needs of the sector in which the company operates, that is pressure equipment, as well as to allow students to acquire the specific skills needed to enter in the world of work.

Walter Tosto's engineers and technicians were directly involved in the implementation of the study plans in collaboration with the teachers of the Technical Institute.

The project was activated in September 2017 and is carried out within an experimental class of the mechanical address with declination on pressure equipment.

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Training

Welding course

Since 2006, the company carries out a professional training course for welders, divided between practical training (200 hours) and theoretical lessons (20 hours). About 20 young people participate in each edition and 80% of them end up positively the program by becoming a qualified welder, while 50% of the participants are subsequently included in the company's staff.





Thank you for your attention

