

HAMRIYAH, UAE MANUFACTURING FACILITY

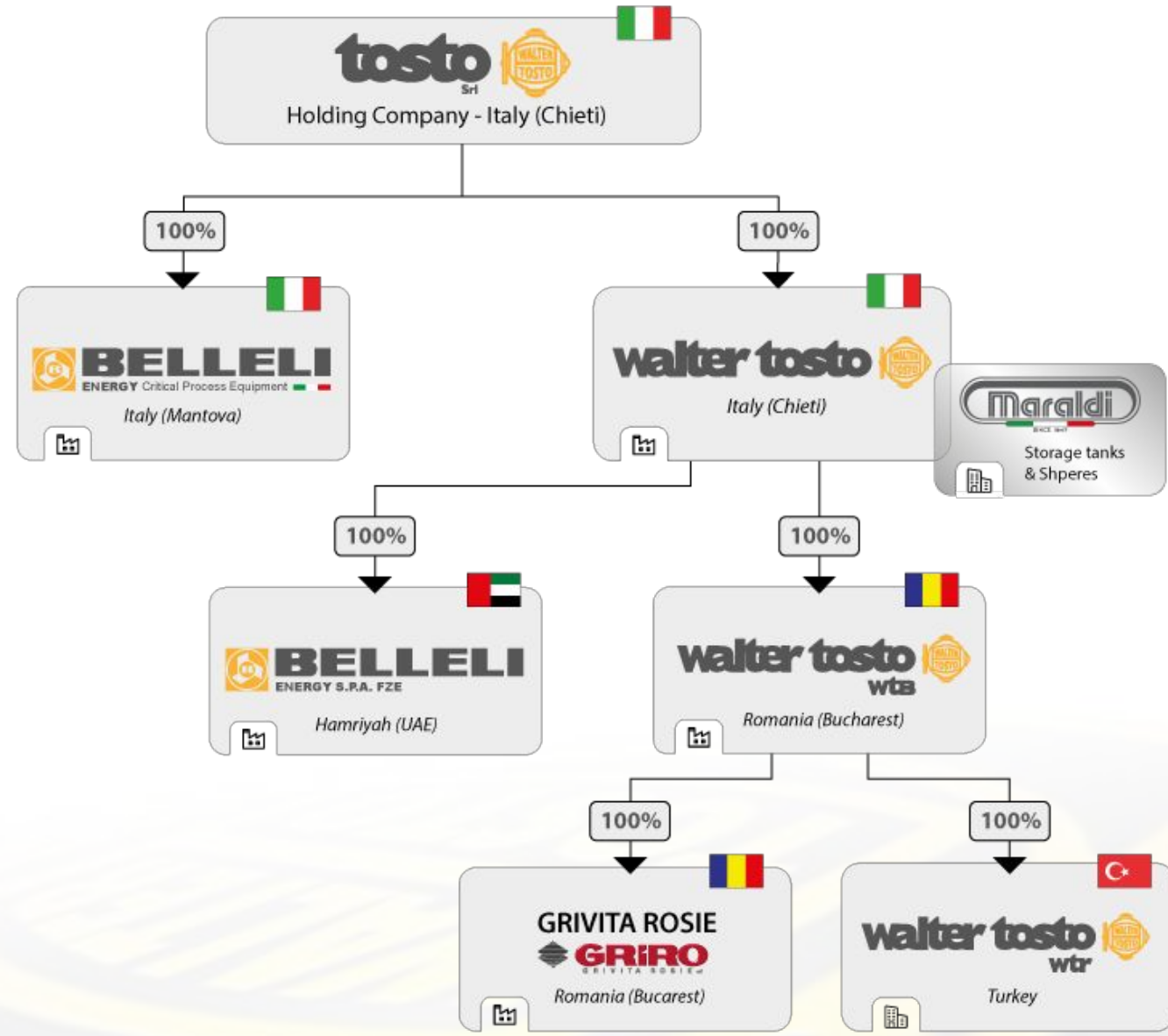
2024





The Group

Tosto Group



= Workshop = Office

The Tosto Group is comprised of several Companies in various areas of business. This company organization chart refers to the Companies strictly involved in Oil & Gas, Petrochemical, Nuclear and Big Science Business.

Facts and Figures



Employees:
1.300



Investments:
75.000.000 € in 5 years



Turnover: over
220.000.000 €



Equity and Reserves:
150.000.000 €



Assets:
400.000.000 €



Order Portfolio at September 2023:
700.000.000 €



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)
Coal Gasification
Gas compression
Process skids/modules



Power and Big Science

Conventional
Nuclear
Renewable

Licensors



Refining



Chemical & Petrochemical



Gas Process



Power



TOPSOE

ExxonMobil



wood.



TOPSOE





HYDROCRACKING/ HYDROTREATING REACTORS

UNITS:

Over 250 units built since 1988
Over 100 units in modified Cr-Mo-V

WEIGHT:

From 200 tons to 2000 tons

MAXIMUM DIMENSIONS:

Shell Thck 350 mm Dia. Up to 6 mt

MATERIALS

2.25 Cr 1 Mo Standard
2.25 Cr 1 Mo Enhanced
2.25 Cr 1 Mo 0.25V Modified
12 Cr Mo 9 10

DESIGN CODES:

ASME, AD-Merkblätter,
BS5500, Stoomwezen,
Finnish Code, EN 1445

PROCESS LICENSORS:

UOP, CLG, ExxonMobil,
Airlíquide/Lurgi, Axens,
KBR, Haldor Topsoe,
Shell Global Solutions



HIGH PRESSURE VESSELS & COLUMNS

UNITS:

Over 750 units built since 1966

WEIGHT:

From 10 tons to 1400 tons

MATERIALS

Carbon Steel
1.25 Cr 0.5 Mo
2.25 Cr 1 Mo Standard
2.25 Cr 1 Mo Enhanced

DESIGN CODES:

ASME, AD-Merkblätter, BS5500,
Stoomwezen,
Finnish Code, EN 1445

PROCESS LICENSORS:

ExxonMobil, CLG, BP, Shell Global
Solutions, ConocoPhillips, UOP, Axens,
Haldor Topsoe, Foster Wheeler, Technip,
Saipem, KBR, Linde, Casale, Toyo, CB&I,
Air Liquide, ThyssenKrupp/ Uhde, Davy
Process.

Products



LARGE COLUMNS



Products



BULLETS





BREECH LOCK HIGH PRESSURE HEAT EXCHANGER

UNITS:

Over 220 units built since 1980

WEIGHT:

From 20 tons to 200 tons

MAXIMUM DIMENSIONS:

Tubes length: >10.000 mm.

Shell Diameter: up to 1.700mm.

MATERIALS

1.25 Cr 0.5 Mo

2.25 Cr 1 Mo Standard

2.25 Cr 1 Mo Enhanced

2.25 Cr 1 Mo 0.25V

Modified (+ 60 units)

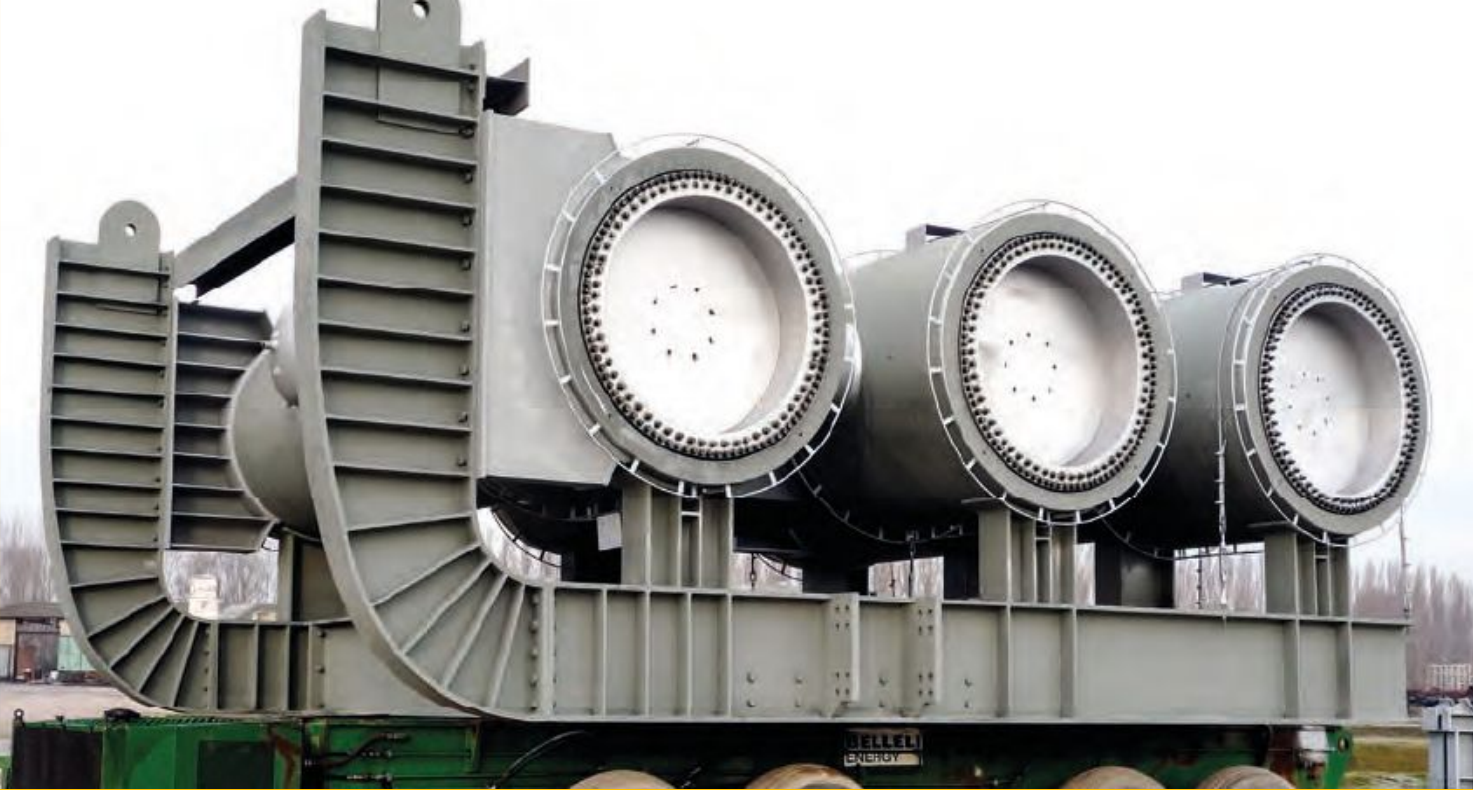
12 Cr Mo 9 10

DESIGN:

Breach Lock (proprietary design), Bolted In, Combined Breach Lock-Bolted In

PROCESS LICENSORS:

Chevron, UOP, CLG,
Exxon, Axens, KBR, Shell



SHELL & TUBE HEAT EXCHANGER

UNITS:

Over 950 units built since 1980
> 60 units modified Cr-Mo-V

WEIGHT:

From 30 tons to 800 tons

MATERIALS

1.25 Cr 0.5 Mo
2.25 Cr 1 Mo Standard
2.25 Cr 1 Mo Enhanced
2.25 Cr 1 Mo 0.25V Modified
12 Cr Mo 9 10

DESIGN:

Up to Three-Stacked Exchanger

PROCESS LICENSORS:

Chevron, UOP, CLG, Exxon, Axens, KBR,
Shell

Products



SHELL & TUBE HEAT EXCHANGERS





SHELL & TUBE HEAT EXCHANGERS





TUBULAR REACTORS

UNITS:

Over 30 units built since 1989

WEIGHT:

From 900 tons to 1160 tons

MAXIMUM DIMENSIONS:

Reactor Length: 30.000 mm

Shell Diameter: 7.200 mm

N. Of Tubes: 29.400

MATERIALS

Carbon Steel, Micro-Alloyed (high strength) steel, Low Alloy steel, 300 Series and Duplex
Stainless steel

PROCESS LICENSORS:

Shell, KBR, BASF, Scientific Design, Lurgi, Toyo



METHANOL REACTORS

UNITS:

30 Large Units built since 1989, including
N.2 Water Cooled
N.1 Gas Cooled

WEIGHT:

From 100 tons to 475 tons

MAXIMUM DIMENSIONS:

Max Tube Length: 10.500 mm
Shell Diameter: 5.470 mm
N.Of Tubes: 6.400

MATERIALS

Carbon Steel, Low Alloy Steels, 300 series
and
Duplex Stainless Steel

DESIGN CODES:

Methanol Process

PROCESS LICENSORS:

Haldor Topsoe, Air Liquide/Lurgi, Toyo,
Davy
Process Technology.



UREA EQUIPMENT

UNITS:

> 50 units built since 1980

WEIGHT:

From 25 tons to 500 tons

MATERIALS

High Strength Carbon Steel, 316 L Urea Grade
Stainless Steel, 25-22-2
High Alloy Steels, Safurex,
Duplex Steel

DESIGN CODES:

Urea Stripper, Carbamate Condensers,
Scrubbers, Urea Reactors

PROCESS LICENSORS:

Stamicarbon, Snamprogetti, Toyo
Engineering



AMMONIA EQUIPMENT

UNITS:

Over 70 units built

WEIGHT:

From 25 tons to 400 tons

MATERIALS

Ammonia Converter, Ammonia Converter Baskets, Waste Heat Boilers, Gas-Gas Exchanger

DESIGN CODES:

Urea Stripper, Carbamate Condensers, Scrubbers, Urea Reactors

PROCESS LICENSORS:

Haldor Topsoe, KBR, Snamprogetti, Ammonia
Casale, Thyssen-Krupp/Uhde



Other Products



Cold Separators



Sweet Gas Scrubbers



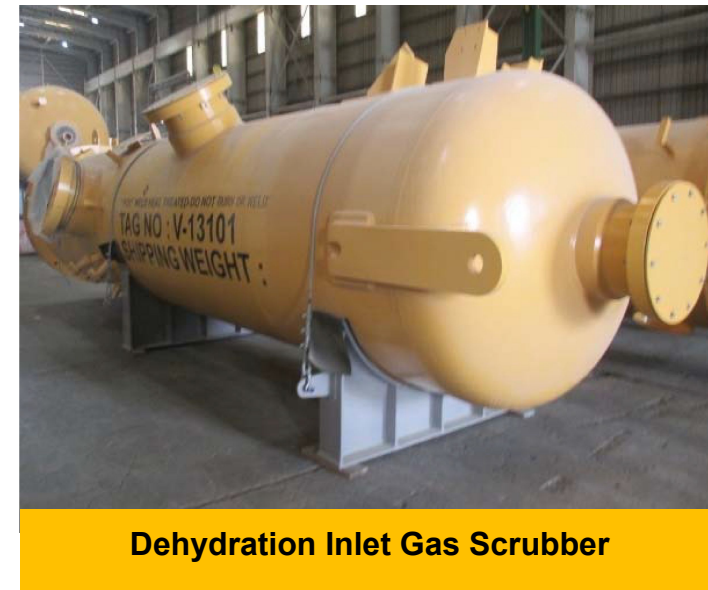
Mercury Removal Vessels



Slug Catcher



Cool Separators



Dehydration Inlet Gas Scrubber

Other Products



Dehydration Adsorbers



Dehydration Inlet Gas Scrubbers



NGL Surge Tank



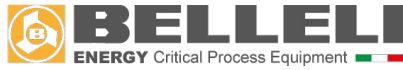
NGL Surge Tank



Workshops

Workshops

The combined three plants capacity is 158.000 m² Workshop covered area and 490.000 m² of Workshops uncovered area, with more than 1000 people and an overall capacity of 900 000 Manhours/Year.



Mantova, Italy

Covered Area: 60.000 sqm
Uncovered Area: 280.000 sqm



Ortona, Italy

6 workshops
Covered Area: 91.000 sqm
Uncovered Area: 340.000 sqm



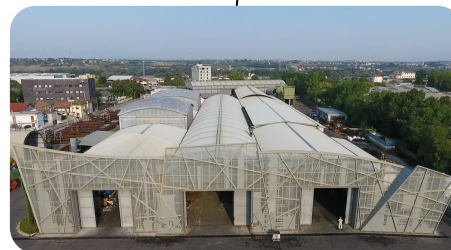
Olteneita, Romania wtb

River front workshop



Bucharest, Romania wtb

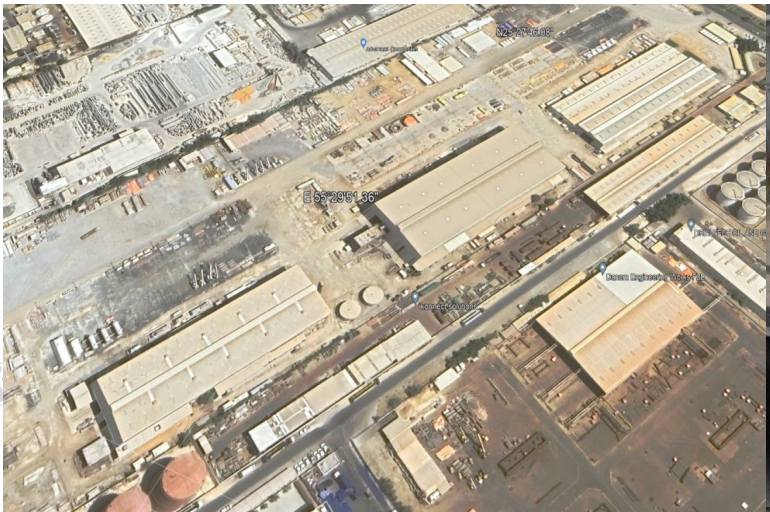
Covered Area: 25.500 sqm
Uncovered Area: 15.500 sqm



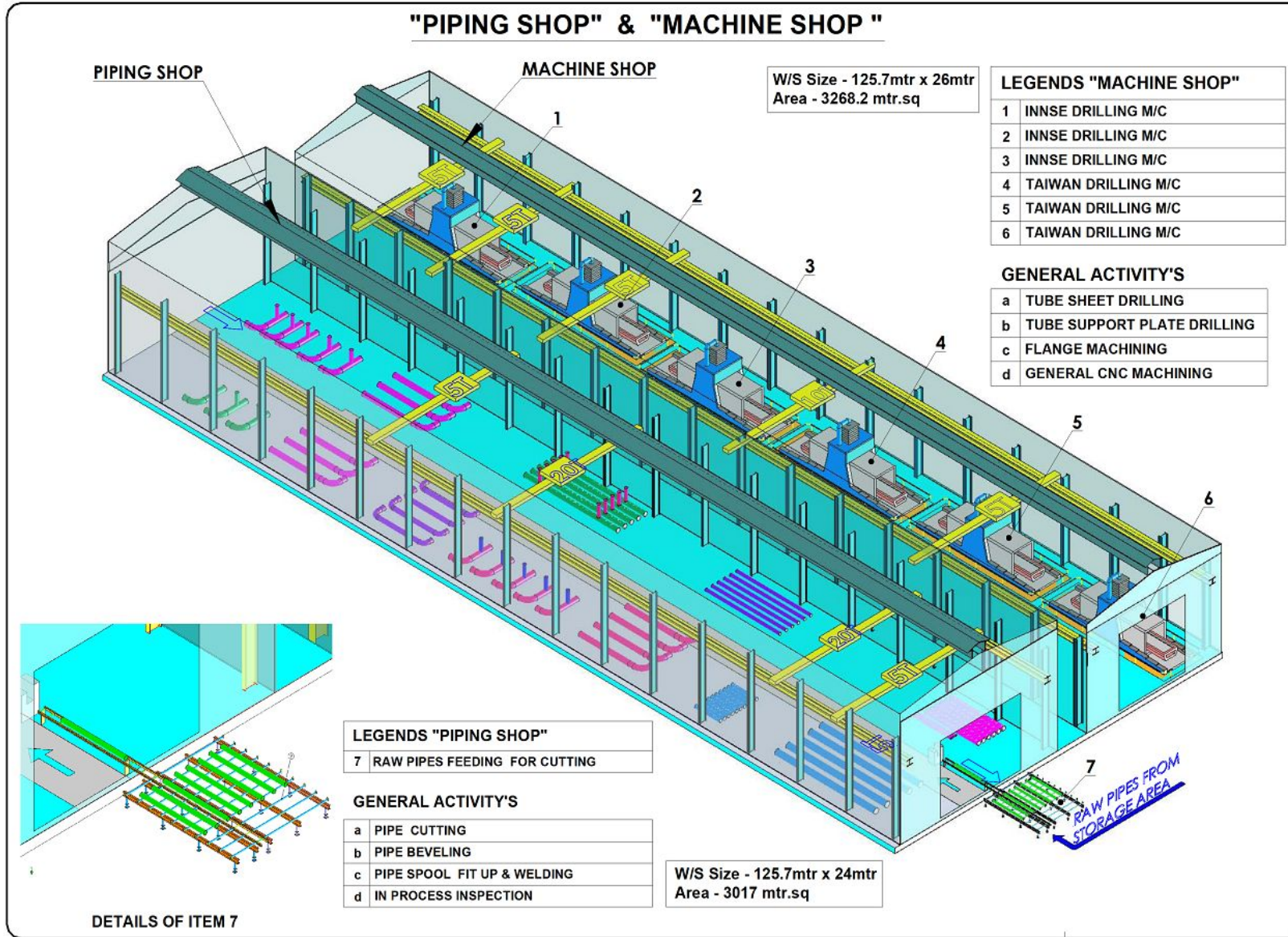
Chieti, Italy

6 workshops
Covered Area: 91.000 sqm
Uncovered Area: 340.000 sqm

**BELLELI ENERGY S.P.A. FZE
HAMRIYAH MANUFACTURING FACILITY**

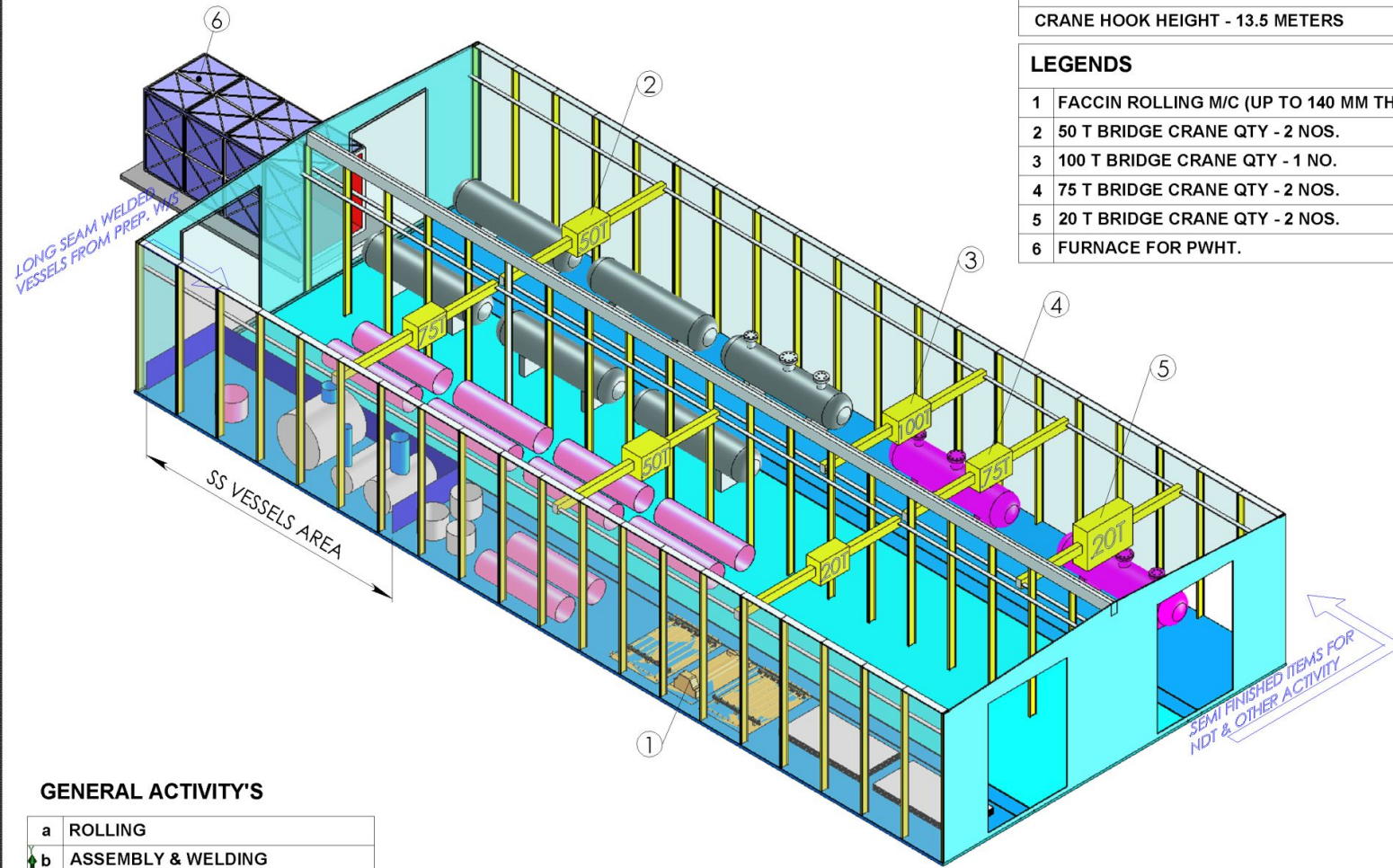


WORKSHOP-1



WORKSHOP-2

ASSEMBLY SHOP



GENERAL INFORMATION	
2 BAY, SHOP SIZE - L 120 M x W 50 M	
SHOP AREA - 6000 M ²	
CRANE HOOK HEIGHT - 13.5 METERS	

LEGENDS	
1	FACCIN ROLLING M/C (UP TO 140 MM THK.)
2	50 T BRIDGE CRANE QTY - 2 NOS.
3	100 T BRIDGE CRANE QTY - 1 NO.
4	75 T BRIDGE CRANE QTY - 2 NOS.
5	20 T BRIDGE CRANE QTY - 2 NOS.
6	FURNACE FOR PWHT.

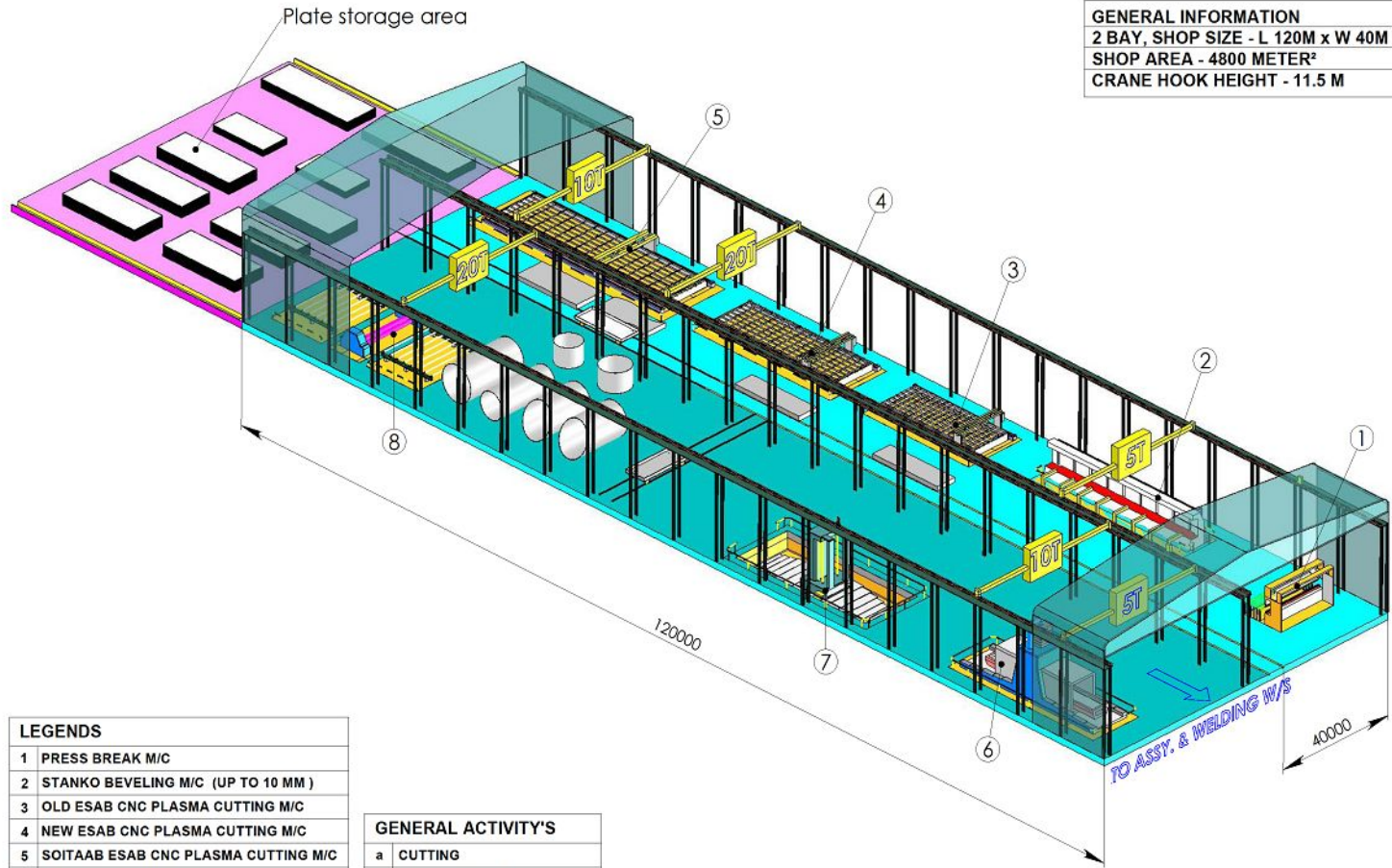
GENERAL ACTIVITY'S

a	ROLLING
b	ASSEMBLY & WELDING



WORKSHOP-3

PREPARATION SHOP



GENERAL INFORMATION
 2 BAY, SHOP SIZE - L 120M x W 40M
 SHOP AREA - 4800 METER²
 CRANE HOOK HEIGHT - 11.5 M

LEGENDS	
1	PRESS BREAK M/C
2	STANKO BEVELING M/C (UP TO 10 MM)
3	OLD ESAB CNC PLASMA CUTTING M/C
4	NEW ESAB CNC PLASMA CUTTING M/C
5	SOITAAB ESAB CNC PLASMA CUTTING M/C
6	INNSE CNC DRILLING M/C
7	CERUTI MILLING M/C
8	FACCIN ROLLING M/C (UP TO 55 MM THK.)

GENERAL ACTIVITY'S	
a	CUTTING
b	ROLLING & BENDING
c	WELDING
d	CNC DRILLING & MACHINING

NOTE - ALL DIM. ARE IN MM





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



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



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

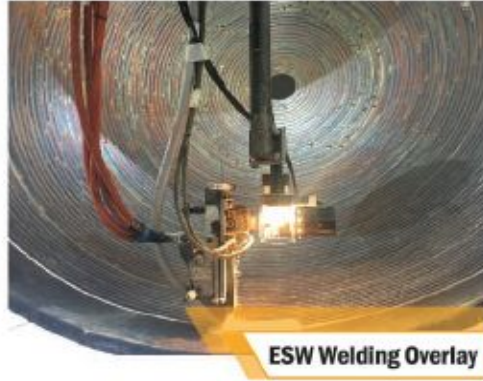


- Blasting & Painting Shops
- Radiography Bunkers
- Cranes & Boogies
- Operational 24x7



WELDING CAPABILITIES

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



ESW Welding Overlay



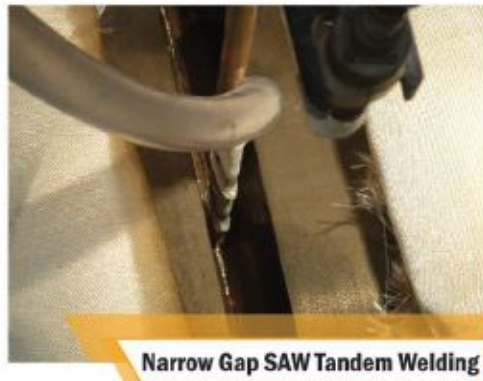
Automatic Pipe ID Overlay



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



ASSEMBLY SHOP

PREPARATION SHOP

- Heavy Rolling Machine up to 140 mm thick
- EOT crane Lifting capacity up to 175 MT
- Long Furnace up to 750°C



- 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
- Petrobras
- 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





Thank you for your attention