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Since 1950, a continuous grow in technology and experience brought the Company to be a leader among fertilizers, refinery and petrochemical equipment manufacturers. The focus of the Company is on High Pressure and High Temperature equipment and/or items made with special materials, such as Titanium, Zirconium, Nickel Alloys, Duplex and Superduplex. Officine Luigi Resta is structured to perform «in house» all the activities related to the design, construction and inspection of pressure equipment, including a large clean room for reactive materials, maximizing the quality and optimizing the delivery due to the full control of all the critical operations.

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An After Sales Department has been established to assist our Clients during maintenance and repairs on equipment made by us or, most frequently, by others.

A strategic partnership with Italian HexSol® Engineering Company allows Officine Luigi Resta S.p.A. to design and produce all the equipment of Heat Recovery packages starting from main Licensors datasheets.

Our production capabilities allow us to manufacture equipment up to a weight of 450 tons and a diameter slightly exceeding 5 m; production range includes:

- Urea strippers, Carbamate Condensers
- Urea Reactors and Urea Separators
- Ammonia Converters, Wires, Gas Gas and Gas Cooler Exchangers, RFW Heaters
- Hydrocracking and Hydroshifting Reactions
- HP Separators and High Pressure Vessels
- Platforming Reactions
- Texas Towers
- Feed Effluents Heat Exchangers, screwed type, welded diaphragm and special design
- Tubular Reactors
- LNG Condensers train
- Exchangers and Vessels made by reactive materials (Titanium, Zirconium), nickel alloys and duplex, superduplex, clad or solid construction.

- N. 3 Computer controlled deep drilling machines:
  - Max. tubesheet diameter: 6.0 m
  - Max. tubesheet thickness: 1.050 mm

- N. 3 gas fired furnaces:
  - Max. dimensions 8.0 x 8.0 x 24.0 m
  - Max. temperature > 1.000 °C

- N. 3 Lab.
  - Tensile, impact, hardness testing
  - Positive material identification
  - TOFD, XRay, UT examination

- N. 1 Laboratory:
  - Tensile, impact, hardness testing
  - Positive material identification
  - TOFD, XRay, UT examination

- N. 1 Clean room for reactive metals equipment fabrication:
  - Floor treatment / Air treatment
  - Dimensions: 15 x 51 x 6 (below hook)

- N. 1 Laboratory:
  - Tensile, impact, hardness testing
  - Positive material identification
  - TOFD, XRay, UT examination

- N. 2 rolling machines:
  - Max. plate thickness: 3,600 mm
  - Max. thickness: 140 mm

- N. 2 vertical lathes:
  - Max. barrels diameter: 5.0 m
  - Max. barrels weight: 45 tons

- N. 3 Computer controlled deep drilling machines:
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- N. 3 gas fired furnaces:
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**Officine Luigi Resta S.p.A.** is a qualified supplier of the high pressure synthesis loop equipment for Urea and Ammonia plants. We have produced exchangers and vessels according to the technology of Saipem, Casale, Thyssen Krupp Uhde, Haldor Topsoe.

In partnership with Italian Hexsol® **Officine Luigi Resta S.p.A.** is able to design and supply all the equipment belonging to Heat Recovery Packages.

**Reactive Metals**
- Titanium equipment – solid clad
- Zirconium Equipment – solid clad

**Urea Reactors**
- Lining 25 22 2
- Lining Titanium

**Waste Heat Boilers**
- Single units
- Waste Heat Boiler Packages

**Urea – AMMONIA**

**After Sales Service**

The After Sales Service of **Officine Luigi Resta S.p.A.** has a wide experience in on site repairs and maintenance of Urea and Ammonia equipment directly fabricated by **Officine Luigi Resta S.p.A.** or by others.

Detailed information is available on web site: [www.officineresta.it](http://www.officineresta.it)
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**EXCHANGERS**

**Very Large Exchangers**
- Methanol Tower Reactors
- Reboilers – Condensers
- UDS Coales - Condensers

**Screwed Closure type / Welded Diaphragm / Special design**

**Officine Luigi Resta S.p.A.** has the licence for:
- Rod baffles heat exchangers
- Helix baffles heat exchangers
- WHB Thyssen Krupp Uhde with 8W

**Reactive Metals**
- Titanium equipment – solid clad
- Zirconium Equipment – solid clad

**Waste Heat Boilers**
- Single units
- Waste Heat Boiler Packages

**Ammonia Converters**
- 2 1/4 Cr 1 Mo
- 1 1/4 Cr 1/2 Mo
- High Strength Carbon Steel

**Urea Reactors**
- Lining 25 22 2
- Lining Titanium

**Methanol Tubular Reactors**
- Reboilers – Condensers
- LNG Coolers - Condensers

**Mechanical Components**
- Strippers
  - Omegabond®
  - Bimetallic
- Titanium
- Zirconium
- DP28W

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Officine Luigi Resta S.p.A. started the construction of High Pressure Heat Feed Effluent Exchangers in 2001 and has produced more than 300 units.

We developed our own design for the screwed type closure, which is meeting the most stringent requirements of Chevron latest specification.

The list of our Clients includes the major worldwide Engineering Companies and Oil and Gas major players.

Our After Sales Service can provide the proper training and assistance to plant operators during plant shutdown for the maintenance of such critical units.

Officine Luigi Resta S.p.A. production includes also, but is not limited to, Hydrotreating and Hydrocracking Reactors up to a weight of 450 tons, High Pressure Separators, Texas Towers, Platforming Reactors.

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**Refinery**

**Exchangers**

**Urea – Ammonia**

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- HP Separators and High Pressure Vessels
- Reforming Reactors
- Texas Towers
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- Tubular Reactors
- LNG Condensers train
- Exchangers and Vessels made by reactive materials (Titanium, Zirconium), nickel alloys and duplex, superduplex, clad or solid construction.

HEADQUARTER & WORKSHOP:
Corso Europa, 49
24020 Scanzorosciate (BG) - Italy
Ph. +39.035.661130 - fax: 0039 035 665340
resta@officineresta.it - www.officineresta.it

WORKSHOP:
Via Ramo dell’Azoto, 15
30175 Porto Marghera (VE) - Italy
Ph. +39.041.920693

N. 3 Computer controlled deep drilling machines:
- Max. tubesheet diameter: 6.0 m
- Max. tubesheet thickness: 1.050 mm

N. 2 rolling machines:
- Max. plates width: 3,600 mm
- Max. thickness: 140 mm

N. 2 vertical lathes:
- Max. barrels diameter: 5.0 m
- Max. barrels weight: 45 tons

N. 3 gas fired furnaces:
- Max. dimensions 8.0 x 8.0 x 24.0 m
- Max. temperature > 1,000 °C

N. 1 Laboratory:
- Tensile, Impact, hardness testing.
- Positive material identification

N. 1 Clean room for reactive metals equipment fabrication:
- Floor treatment / Air treatment
- Dimensions: 13 x 51 x 6 (below hook)

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- Positive material identification
- TOFD, X-ray, UT examination

N. 2 rolling machines:
- Max. plates width: 3.600 mm
- Max. thickness: 140 mm

N. 1 Clean room for reactive metals equipment fabrication:
- Floor treatment / Air treatment
- Dimensions: 13 x 51 x 4 (below hook)

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