



LP spa

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Finned Tubes, Studded Tubes, Heater Coils & Convection Modules, Economizers

01 December 2016
Venegono Superiore

To whom it may concern

Dear Sirs,

may we take this opportunity to introduce our company to your kind attention.

PRODUCTION RANGE AND EXPERIENCE

L.P. S.p.A. was established in 1977 with major presence in petrochemical plants and most recently in cogeneration plants for manufacture and supply of:

- **High Frequences Welded Finned Tubes**
- **Laser Welded Finned Tubes for high quality critical & super-critical services**

With I-Type steel fins, solid and serrated, spiral wound and continuously welded to the tubes.

Common material combinations used:

For tubes: carbon steel, carbon moly, stainless steel, Inconel and Incoloy

For fins: carbon steel, 304, 310, 321, 409, 410 and Inconel.

Tube diameters handled from ¾" (25,4 mm) through 10" (273 mm).

Tube lengths: we can fin tubes up to 85 ft (26 m).

- **Studded Tubes**

With helical wound electric resistance welded steel studs.

Common material combinations used

For tubes: carbon steel, carbon moly, stainless steel, Inconel and Incoloy

For studs: carbon steel, 304, 310, 321, 409, 410 and Inconel.

Tube diameters handled from 2" (50.8 mm) through 8" (219 mm).

Tube lengths: we can stud tubes up to 60 ft (19 m).

- **Cold Bending**

of bare and finned tubes, single or multiple coil bends.

Bending range: ¾" (25 mm) through 3" (88.9 mm).

Bending radius : max. 16" (406.4 mm), min 1 x D.

- **Fabrication of:**

- ✓ **Headers and manifolds**
- ✓ **Fired heater radiant and convection coils/modules**
- ✓ **Waste heat boilers, preheaters, economizers, and superheaters**
- ✓ **Cryogenic liquid vaporizers (LNG)**
- ✓ **Cold collectors and transferline**
- ✓ **Piping systems.**
- ✓ **Skid assemblies.**



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EMPLOYEES

Total 85 comprising:

➤ Management	3
➤ Design and drawing office	1
➤ Administration	4
➤ Sales	4
➤ Project managers	2
➤ Quality Assurance	4
➤ N.D.T. Testing	4
➤ Logistics	1
➤ Workshop and supervision	62

WELDING / WELDERS PROCEDURE QUALIFICATIONS

Our welding procedures and welding personnel are qualified by the following institutions:

- Italian welding institute
- Apave Italia CPM
- TÜV
- INAIL
- Bureau Veritas
- Lloyd's register

DESIGN OFFICE

We calculate, design and verify mechanical projects for pressure parts in accordance with INAIL, ASME, AQUAP, T. U. E. V. codes.

QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance / quality control: Headed by qualified welding technologists & inspectors with quality control system qualified level two in accordance with ASNT - SNT TC-1 A and EN ISO 9712 codes provides both the technical and quality control system essential for manufacturing operation and in accordance with the applicable codes.

CERTIFICATES – HOMOLOGATIONS:

- THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS Certificate of Authorization NB for items Manufactured in accordance with: ASME Stamps: S, U, PP
- ISO 9001: 2008 released by Det Norske Veritas
- AD 2000 - MERKBLATT HP 0 / TRD 201 / EN ISO 3834 released by TÜV SÜD (NB) for the manufacture of Boilers and Pressure Vessels
- MANUFACTURE LICENCE OF SPECIAL EQUIPMENT PEOPLE'S REPUBLIC OF CHINA for Boilers and Pressure Vessels
- QUALITY ASSURANCE SYSTEM CERTIFICATES in accordance with Pressure Equipment Directive 97 / 23 / EC (PED) Annex I, Paragraph 4. 3 – thru TÜV ITALIA NB as manufacturer of Steel Finned & Studded Tubes



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- ARAMCO QUALITY SYSTEM APPROVED as manufacturer of finned and studded tubes, header pipes and spools.
- Company L.P. S.p.A. has obtained and can get the certificate requested for its products according to the Technical Directive № TR TS 032/2013 (valid for Russian, Kazakhstan and Byelorussian markets).

NON DESTRUCTIVE INSPECTION AND TESTING EQUIPMENT

- No. 2 Spectro Port metal analyzer
- No. 6 X-Rays
- No. 3 Gamma Ray Iridium 192 (to 30 Curie)
- No. 1 Gamma Ray Selenio Se75
- No. 1 Electronic universal tensile testing machine
- No. 1 Ultrasonic control direct digital reading thickness meters
- No. 1 Magnaflux type Silver Yoke
- No. 1 Portable electronic hardness testers
- No. 1 Ruscope 1000 "Rothenberger"
- No. 2 Hydrostatic test pumps to 600 Bar
Dye-penetrant crack detection

WORKSHOP AEREA

No. four bays	8,000 m ²
TOTAL YARD STORAGE AEREA	25,000 m ²

SPECIAL WELDING LINES

- No. 4 H.F. E.R.W. Heavy Duty Finning machines with solid states 400 kHz, 250/300/350 KW power generators.
- No. 2 Double head E.R.W. Studding machine.
- No. 1 Welding mill for butt welding of tubes, flange/tube, tube/fitting with automatic TIG W.M.
- No. 1 High quality & speed 5-D robotized tig welding and plasma cutting centre

WELDING EQUIPMENT

- No. 5 Automatic flash B.W. machines
- No. 50 Welding machines various types including AC/DC/TIG/MIG
- No. 3 Automatic orbital welder
- No. 2 Automatic submerged arc welder
- No. 12 Positioners up to 30 tons

HEAT TREATMENT FACILITIES

- No. 3 Electric resistance equipments for localized heat treatment of welds with automatic diagram recorder.
- No. 1 Furnace for heat treatment 2900 x 2900 x 9300.



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MACHINE TOOLS

- No. 1 Schwarze-Wirtz WE80 booster bending machine for cold bending up to 88.9 mm O.D. tubes.
- Nr. 2 CNC machining centre
- No. 3 Vertical drilling machines up to 50 mm.
- No. 3 Flame profiling Plasma.
- No. 5 Power saws.
- No. 1 Cutting/Bevelling machine
- No. 12 Portable tube end preparation equipments up to 800 mm O.D.
- No. 1 Plate rolling machine up to 30 mm thickness

PROTECTIVE COATING FACILITIES

We can coat our products with suitable protective coating in accordance with clients' requirements and specifications.

SAND BLASTING AND PAINTING

Above operations are normally sub-contracted in near-by located specialized shops.

CRANE CAPACITIES

- No. 11 overhead cranes with capacity from 3 to 32 tons.
- All bays equipped with fixed jib arms and electric hoists.
- Yard handling with 3 side loaders plus 5 mobile cranes up to 36 tons.

PACKING

Manufactured goods can be packed in wood boxes, crates or pallets by packing companies, or bundled in accordance with clients requirements and specifications.

LOCATION

L.P. S.p.A. offices and shop manufacturing facilities

Via Campo dei Fiori, 28
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E-mail: lp@lpspa.it

We thank you for your kind attention; should you be interested in the above mentioned products or require any additional information please contact us for further clarification.

Yours sincerely,
L.P. S.p.A.

Graziano Romito - President