FERTILIZER APPLICATIONS

In 1927 Boldrocchi manufactured the first finned tube and now thanks to the 11 different finning machines can supply finned tubes of different types:
- L-Footed / KLM / Extruded / Embedded - up to a finned length of 16 meters and in a variety of materials.

OIL & GAS AND PETROCHEMICAL APPLICATIONS

Typical application are in plants for:
- Hydrocracking;
- Gas Sweetening and Acid Gas Removal;
- TEG Regeneration.

And to cool lube oil, gas and water for main equipment as:
- Heavy duty Gas Compressor
- Primary Pumps
- Gas Turbines

Low noise applications, low temperature solutions and winterization for external air recirculation can also be provided by Boldrocchi.

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DESIGN WITH H.T.R.I SOFTWARE

Thermal design is performed within Boldrocchi using H.T.R.I software and generally in accordance with API 661. Mechanical design of the pressure parts can be performed by Boldrocchi according to the main international codes (ASME, EN13445, AD Merkblatt, CODAP, VSR, etc.). FEA analysis can be performed for parts not covered by these codes. NACE, EEMUA and TEMA are also available.

DESIGN AND MECHANICAL STRENGTH TEST UP TO 500 BAR

The tube bundle is mechanical and thermal designed for high pressure (up to 400 bar) in special materials such as Superduplex, Monel, Hastelloy and Titanium and for heavy service such as Wet H2S, Hydrogen and Fluor.

AIR COOLED HEAT EXCHANGER

Specializing in providing all Thermal & Mechanical information, this division supplies tailor made air cooled heat exchangers (ACHE) for any main Petrochemical, Process, Oil & Gas and Power Plant needs.

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Boldrocchi has a comprehensive ACHE Reference List which will show all previous contracts and Engineering Companies they have worked with.

FANS AND BLOWERS

For every application, Boldrocchi fans will be tailor made designed in different types, size and arrangements. In the years Boldrocchi has developed a wide experience in double or multi stage blowers with pressure rise over 9000 mnh20, double driven fans with steam turbine as main driver and electric motor as back-up, fans designed for pressures of several bars, fans manufactured in special alloys, casing with steam tracing to avoid acid condensates. Fan and blowers are designed and manufactured to respect clients’ specifications and the main international standards as API 560 and API 673. High flexibility in testing equipment is one of the plus that Boldrocchi can offer to his customers: performance tests (accordimg AMCA 210 or other standards) with ducts up to 3 m, running test at full speed for fans larger than 3 MW, complete unit tests with medium voltage motors of different voltage, pressure tests, hot gas tests and more. All the welding are performed according ASME, AWS or EN norms, with practically no restriction on the type of materials: carbon steels for very high or very low temperatures, different type of stainless steels, duplex and superduplex, inconel, titanium.

FERTILIZER APPLICATIONS

- Urea Plant
  - Granulator & Cooler Scrubber exhaust fans
  - Granulator & Fluid Bed Coolers Fluidization Air Fan
  - Atomization Air Blowers
  - Dedusting & Fumes Extraction Fans
  - CO2 Blowers

- Ammonia & Methanol Plant
  - Induced Draft Fans
  - Forced Draft Fans
  - Formaldehyde
  - Pressurization Air Blower
  - Recirculation Blowers

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OIL & GAS AND PETROCHEMICAL APPLICATIONS

- Hydrogen Refomer
- Ethylene Furnaces and Fired heaters
- Sulfur Recovery Units
  - Main Air Blowers
  - Incinerator Air Blowers

- Chlorination and Regeneration Plants
  - Hot Gas Regeneration Blowers
  - Fines Removal & Elutriation Blowers
  - Regeneration Cooler Blowers

- LNG
  - Thermal Oxider Air Blower

- Recycle Blowers

DAMPERS

Custom-designed dampers are built according to critical operational requirements, depending on pressure, temperature, sealing degree and airflow regulation.

Boldrocchi has its own technical knowledge to manufacture dampers in highly corrosive, abrasive and elevated temperature environments. The Company offers:
- 3D design / FEM mechanical calculation / Fluid dynamic simulation / Noise analysis

Boldrocchi performs, in its own workshops, tests for dampers in the presence of the Client before the shipping, achieving the overcoming of all the tests required by the stringent Customer specifications.

BOLDROCCHI SERVICE

EM&S is our service division dedicated to the upgrade of existing installations, having the possibility to grant all the needed services, starting from the feasibility study up to the supply, installation and commissioning of the new components, including field balancing.
Oil & Gas • Petrochemical

Global Presence
Local Service
Tailor Made Solutions

PRODUCTION
- 45,000 sqm Manufacturing Shop
- 44 ton Balancing Machine
- Conformed with ISO 9001
- Welding Performed According to ASME, AWS or EN Norms

FACILITIES TEST FOR
- Fan
- Air Cooler
- Silencer
- Filter

TESTS
- Acoustic Compliance Test
- Mechanical Strength Test up to 500 bar
- Fan Performance Test up to KW 2000
- Aseismic Hydrostatic Test
- Running Test for Fans and Air Coolers
- Complete Pre-assembly Test
- Pressure and Hot Gas Tests

FACILITIES TEST FOR
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- Air Cooler
- Silencer
- Filter

Fertilizer
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