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Recently Olimpia 80 has successfully commissioned in Turkey a Linear Cage Forming Tube Mill

destined to produce Square and Rectangular tube sections in carbon steel material. That line can produce square sections from 30x30 up to 80x80 mm and rectangular sections from 60x30 mm to 110x40 mm sections, in a thickness range from 1 mm to 6 mm, with max speed 120 m/min.

It is a good results of a commercial politics regarding the new technology proposed on the market some years ago. Finally the market is ready to consider the advantage of the Linear Cage Forming technology instead of the traditional one.

With this composition, the mill can produce all the square and rectangular tubes within the size range, without changing any roll in Forming, Welding, Sizing, Straightening and Cutting sections; average time of changing tube dimensions is approx. 15 minutes.

The main characteristics of this technology are:

- Simplicity and rapidity in changing diameter.
- Very simple and easy maintenance.
- Simplicity in the software utilization.
- With this innovative solution, the mill allows to produce both square and rectangular tubes by means of a computerized control able to save the production data in recipes that can be very simply recalled.
- It is possible to create particular "shape" with different angles. From the PC it is possible to see the "tube flower" of the tube you want to produce.
- Tube OD changing time for the Forming section: about 3 - 5 minutes.
- All the axis are controlled by hydraulic motors with encoder, and the strip feeding is provided by vectorial motor with inverter (closed loop).

We have some others pending order for similar line for Round and Sections for carbon steel and for stainless steel, destined to European market.

During the next TUBE 2014 exhibition in Dusseldorf, we will exhibit a complete forming and welding section of a Linea Cage Forming line for round section destined to an European customer for automotive industry.

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Company: Olimpia80



Industry Events

- Tube Düsseldorf 2014
- Tube Russia 2014
- Tube China 2014
- Tube India 2014
- Tube Arabia 2015
- Tube Southeast Asia 2015
- Tubotech 2015 Brazil



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Two complete tube mills in the finishing and pre-testing phase

Two complete tube mills in the finishing and pre-testing phase at our headquarters in Piacenza.

Both lines are engineered to produce carbon steel tubes: one is destined in Russia to produce structural tubes and one is destined in Spain for the automotive industry.

The "blue" one for Russia, is a last of three line for the same customer, one of the most important Russian tube manufacturer. The first two are in commissioning and are destined to produce structural and API tubes. Their capacity are from OD 21 up to 89 mm and from OD 40 up to 133 mm; both lines are complete with fully automatic strip loading system, quick roll change system for breakdown, finpass and sizing sections, chamfering, hydrostatic test with washing unit and automatic packaging machine.

This last line is the smallest, for tubes OD from 12.7 up to 60 mm and thickness from 0.8 to 3 mm. The maximum line speed is 150 m/min and the HF welding generator is a 300 kW power. Special features of this line is the quick roll change system for breakdown, finpass and sizing sections and the fully automatic coil strip loading system, which begins with a carousel with 4 arms of 30 t each and a special car for automatic loading of each strip coil on the double decoiler.

The biggest "gray" line destined in Spain is for round, square and rectangle sections, OD from 41 at OD 130 mm, thickness from 1.2 to 6 mm. It is a line studied to produce tube in high tensile strength steel, for the automotive industry. In this case the maximum line speed is 120 m/min and the HF generator is 500 kW. As the previous line this is also equipped with quick roll change system for breakdown, finpass and sizing sections and the automatic loading system, which begins with a carousel 4 arms 30 t cad and an automatic system for the load of each strip coil on the double decoiler.

Both lines have been pre-tested at our headquarters and are in the process of disassembling for truck loading and subsequent commissioning at the customer.

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Industry Events

