

Inox Ti line

Continuous conveyor belt furnaces equipped with a metal muffle for maintaining a hydrogen-controlled atmosphere, designed for annealing and solution annealing processes. Ideal for post-wiredrawing treatment of welded or extruded stainless steel tubes, these furnaces accommodate flat operations for rods up to 30 cm, with optional loading and unloading roller units for enhanced efficiency.

Application: Solubilization

We specialize in adapting solution annealing technology to meet diverse industrial applications, with a focus on the growing demand for annealed stainless-steel tubes.

Our innovative continuous equipment is designed specifically for the solution annealing of AISI 300 stainless steel tubes, whether in bars or coils.

With cutting-edge advancements in furnace manufacturing, we've revolutionized the process, enabling the annealing of tubes up to 30 meters long while significantly reducing operational costs. Our solutions cater to both fitted-cut parts for hydroforming and rods ranging from 4 to 30 meters, ensuring versatility and efficiency for a variety of applications.

100% Hydrogen Operation

Leveraging our extensive expertise in stainless steel heat treatment, we have designed furnaces capable of operating safely with 100% hydrogen in the heating zone, ensuring environmental safety.

Our advanced technology enables continuous dew-point control and faster furnace operability compared to traditional methods. This innovation is the result of our commitment to ongoing research and development in the field, delivering superior efficiency and performance.

Technical Characteristics

For solution annealing of stainless steel tubes in nitrogen-hydrogen or pure hydrogen-controlled atmospheres, we offer a range of furnace models designed to meet varying production needs:

- **Continuous Flat Operation Furnaces**
 - Minimum passage: 300 x 50 mm
 - Maximum passage: 700 x 100 mm
 - Operating speed: Up to 500 mm/min
 - Hourly production: Up to 500–600 kg/h of rod tubes with diameters up to 76 mm
- **Continuous "Hump-Back" Furnaces**
 - Minimum passage: 200 x 100 mm
 - Maximum passage: 700 x 200 mm
 - Operating speed: Up to 800 mm/min
 - Hourly production: Up to 600 kg/h for fitted-cut tubes designed for hydroforming

The ideal furnace model is selected based on the required hourly production and the weight-to-volume ratio of the parts to be treated.

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