THE SPACELESS CONCEPT: **NO MORE SPACER**

Each Tera tunnel furnace - T-Barmaster - involves the use of ingot molds combined with spacers. Infact, spacer ensures perfect heat distribution in the ingot mold during melting.

But, why not design a tunnel furnace without spacers?

The "Spaceless" concept is geared towards maximum optimisation of our tunnel furnace. Less space occupied, less consumption, optimum performance. To achieve this, we decided to eliminate spacers and rethink the entire design of our T-Barmaster.



SPACE SAVING

By eliminating the spacers and rotating the inlet orientation of the ingot moulds in the furnace, we were able to reduce the overall dimensions of



HIGHER PRODUCTIVITY

Our goal is to have machines that perform even better in terms of consumption and productivity. The per-formance of our "Spaceless" furnace is the sum of all the best technology we have on hand.



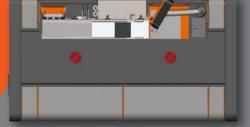
REDUCTION OF CONSUMPTION...

...of energy and graphite. With the same consumption we almost dou-bled productivity. In addition, by eli-minating the spacers we have redu-ced graphite consumption.



2400 mm





T-BARMASTER ONE SMART SPACELESS



verall dimensions (LxWxH): 2400 x 1350 x 1700 mm verall weight: 1500 kg verter weight: included in the weight of the machine

A NEW ECOLOGICAL APPROACH TO INGOTS PRODUCTION

Everyone wants high performance at a fair price, but eliminating spacers was also a choice of responsibility and awareness towards a more rational,

conscious and ecological production.

With "Spaceless" furnaces, we have reduced footprint, raw material consumption and increased the consumption/production ratio: this translates into an advantage on all sides!

TECHNICAL DATA

- Total absorbed power: 25 kW
- Converter power: 20 kW
- Supply voltage: 400V 3Ph-E 50 Hz
- Cooling device: T-Chiller 081
- Air compressor: SX6

T-BARMASTER ONE SMART



T-BARMASTER ONE SMART - SPACELESS

ingots per working cycle



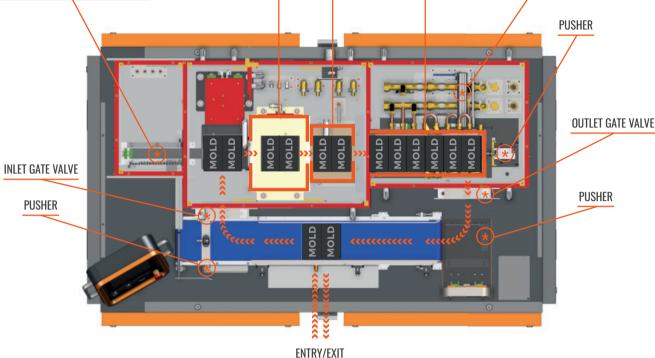








COOLING CHAMBER



ALL WORK STEPS IN A SMALL SPACE

SOLIDIFICATION CHAMBER

MELTING CHAMBER

PERIPHERAL EQUIPMENT

WATER COOLED TELESCOPIC PUSHER

T-CHILLER Cooling system

The critical phase of precious metals bars solidification must be fully controlled, T-Chiller ensures a constant flow of chilled



T-NITRO Pure nitrogen gas generator

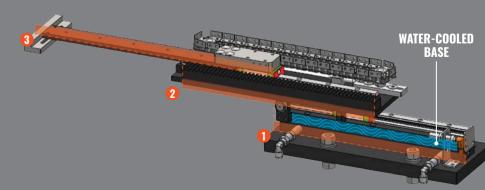
T-Nitro, specifically designed for the Tunnel Furnace electromagnetic fields, guarantees a continuous production of pure nitrogen (up to 99,999%) of top quality, perfectly filtered and dehydrated.

3 TECHNOLOGIES THAT MAKE IT POSSIBLE

RATIO

1kgBar/2kV

Pusher with 3 thrust levels, driven by electric motor and with water-cooled base. Electronics and motor are located outside the range of the pusher in a protected environment.



...instead Pich Valve. Compared to our classic furnaces, in this case there is not one long train of molds but several trains of 2 molds respectively.

kgBar/1kW



Thanks to our collaboration with Italimpianti Orafi, we have developed internally a high-efficiency converter that is silent, compact and has an excellent power consumption ratio.

Max. power: 20 kW Working point: auto-tuning Noise level: < 30 dB Dimensions WxHxD: 19.5 x 42.5 x 30 cm Weight: 35 kg





COMPACT







T-BARMASTER ONE SMART SPACELESS

We have converted our T-Barmaster One Smart tunnel furnace into a new, more compact, better performing and more eco-friendly version.



The greenest induction tunnel furnace ever created. Soon available in various T-Barmaster formats.

T-BARMASTER ONE ingot formats







T-BARMASTER 400 ingot formats







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