



Industry 5.0 applied to new machinery for Gold and Silver ingots production



THE STORY







FIRST MEDIUM-FREQUENCY INDUCTION MELTING FURNACE



Start of the industrial machines manufacture for the **REFINING OF PRECIOUS METALS**



The company obtains patent of the **FIRST TUNNEL FURNACE**



Italimpianti starts its winning collaboration with **TERA AUTOMATION.**



FIRST T-LINE

the first fully automated line in the world for the controlled and certified mass production of gold and silver bars.



Development in an **Industry 4.0** perspective.



INDUSTRY 5.0 product line.









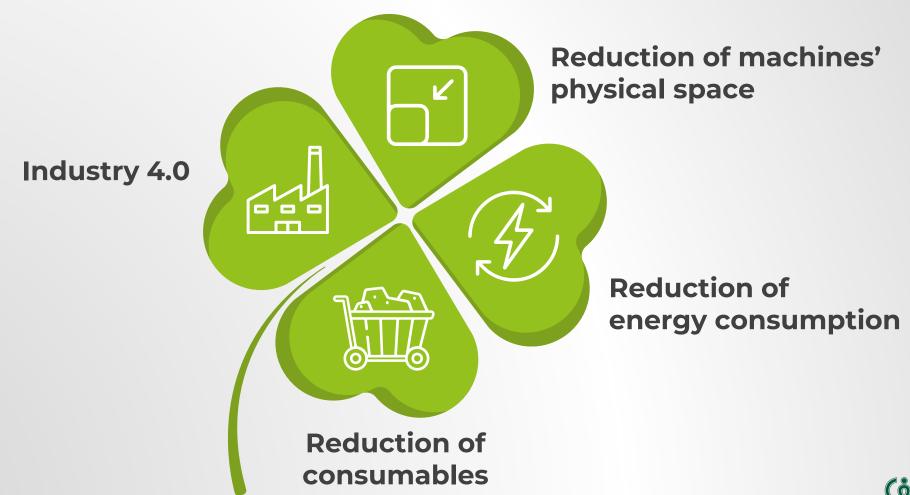
- reducing energy and resource consumption
- supports more environmentally friendly production processes







A NEW WORK PHILOSOPHY

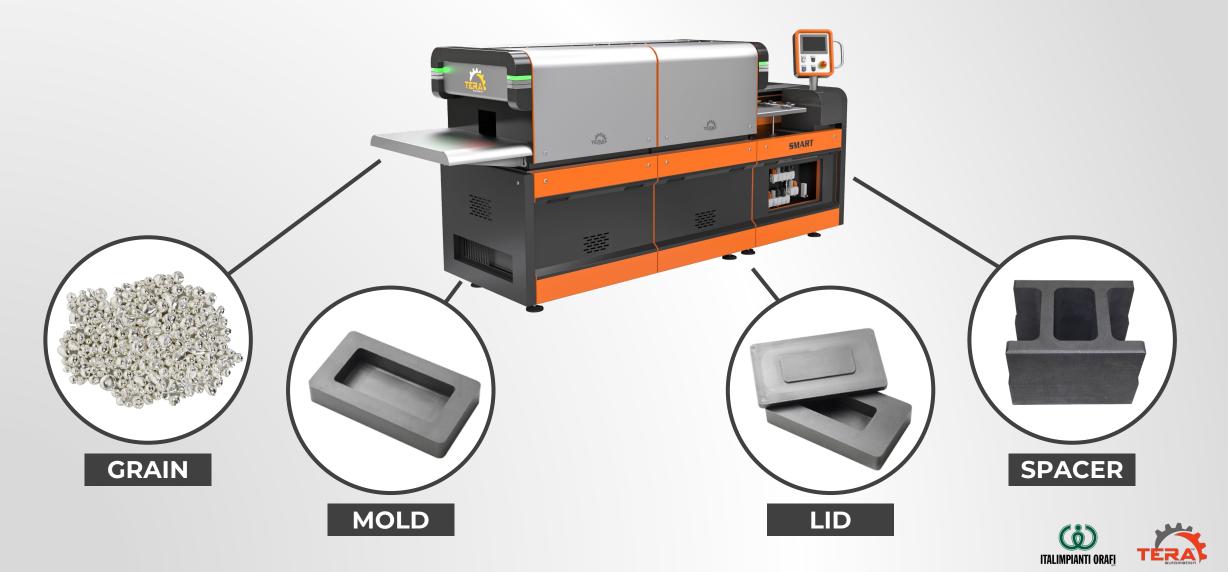








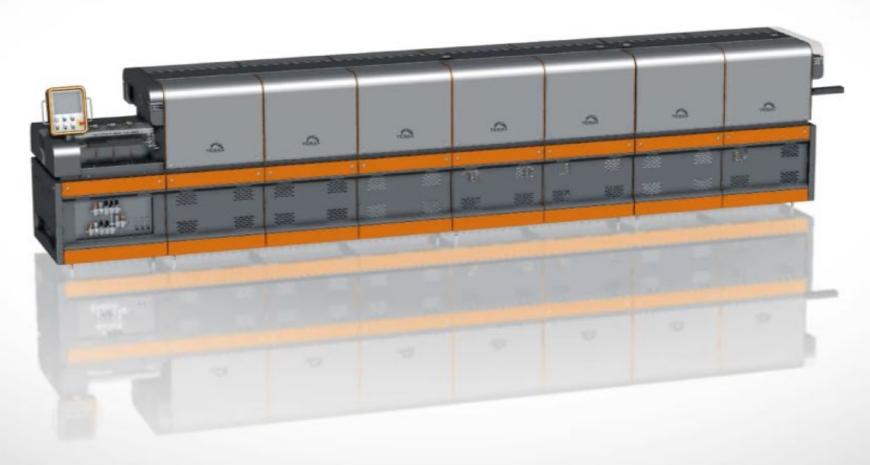
Our traditional furnaces require





T-Barmaster Powerloop

For companies with special space requirements









T-Barmaster Spaceless

The first tunnel induction furnace WITHOUT spacers







T-B Spaceless: OPTIMIZATION



Smaller footprint





Lower consumption

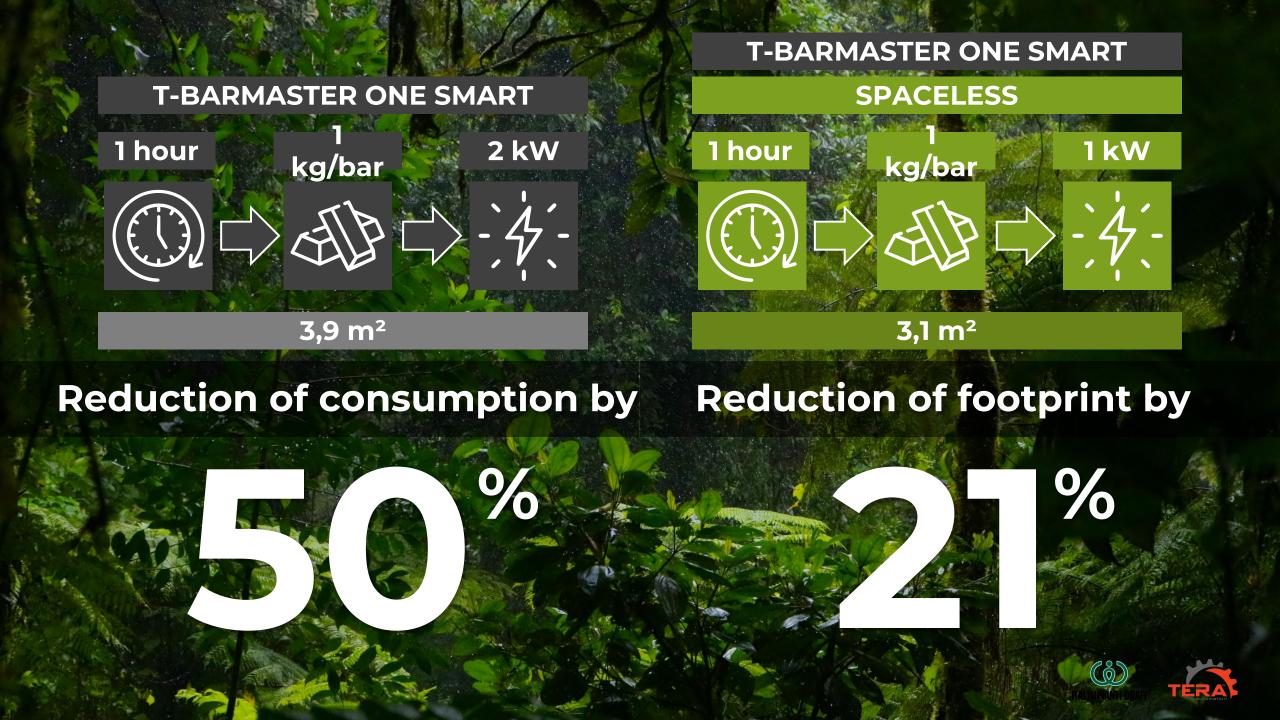


Optimum performance









T-B Spaceless: INNOVATIONS







Water-cooled telescopic pusher

Gate valve instead of Pinch valve

High-efficiency converter







How to optimize the process





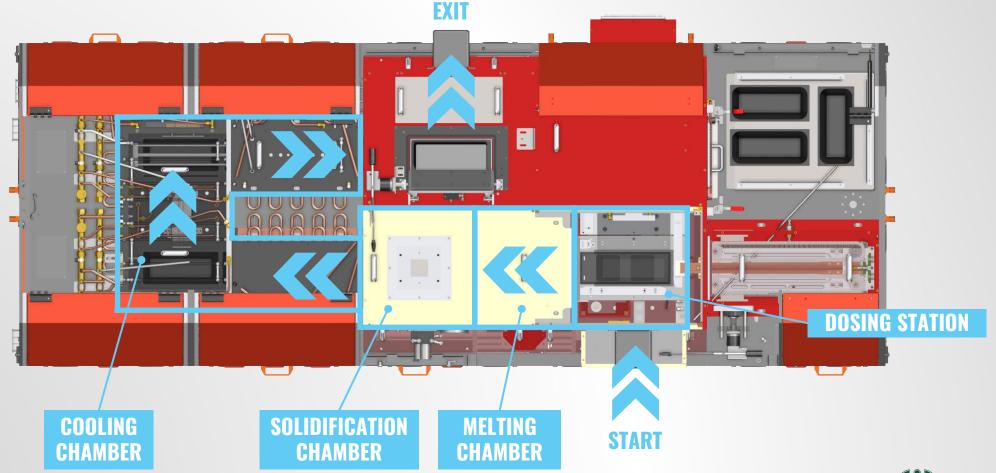
IT Onecast

Allows metal to be melted in its different forms and poured directly into the ingot mold



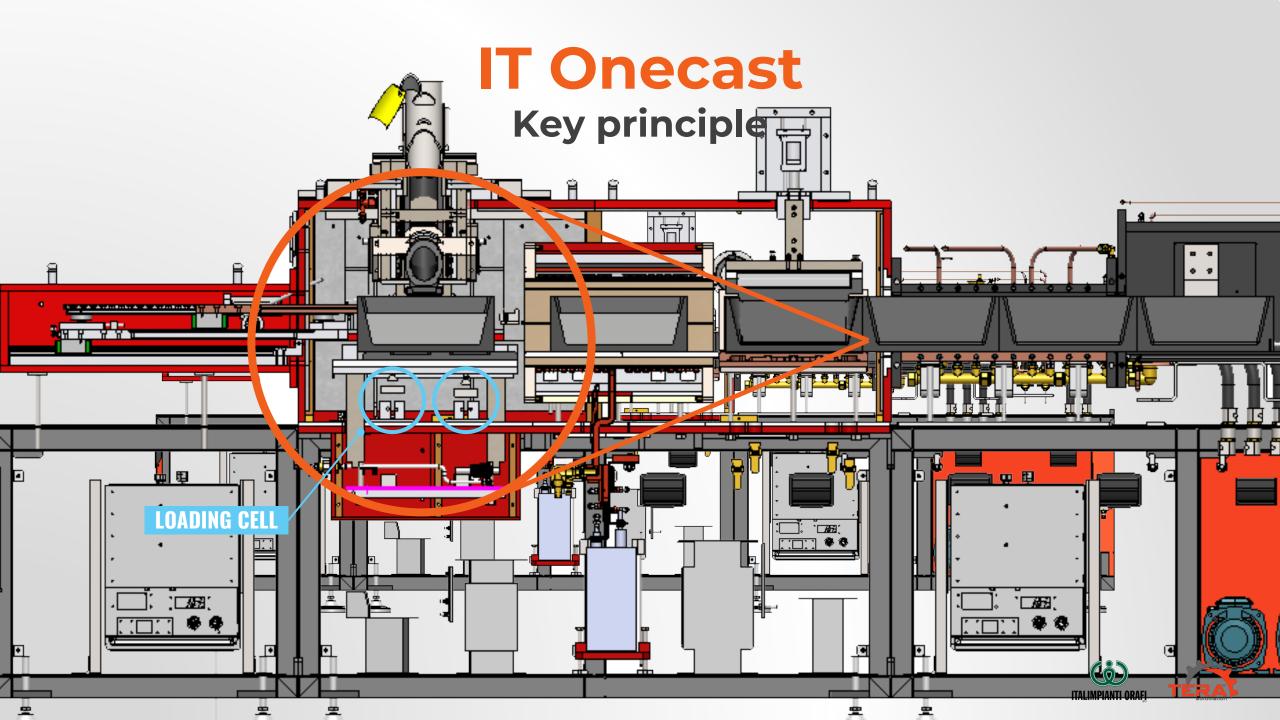


T-Barmaster Spaceless Good Delivery









IT Onecast

Focus on consumable saving







IT Onecast

Focus on consumable saving

The mold volume is significantly reduced as it exclusively contains the molten metal at its maximum density (10,5 kg/l), without the need to load grains or crystals that require larger mold volumes.

TB1000

445,5 liters

81% Graphite saving ITONECAST

84,87 liters

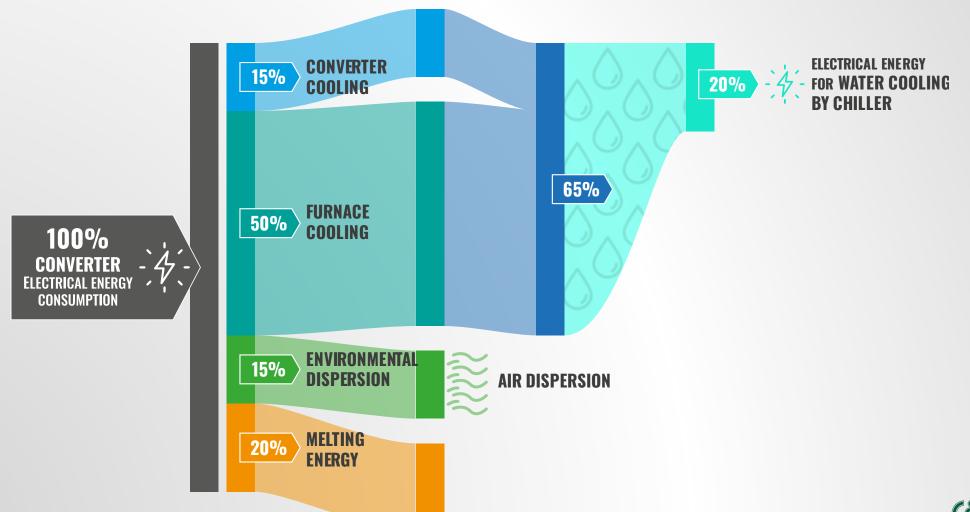






How to optimize cooling system

The traditional system was...

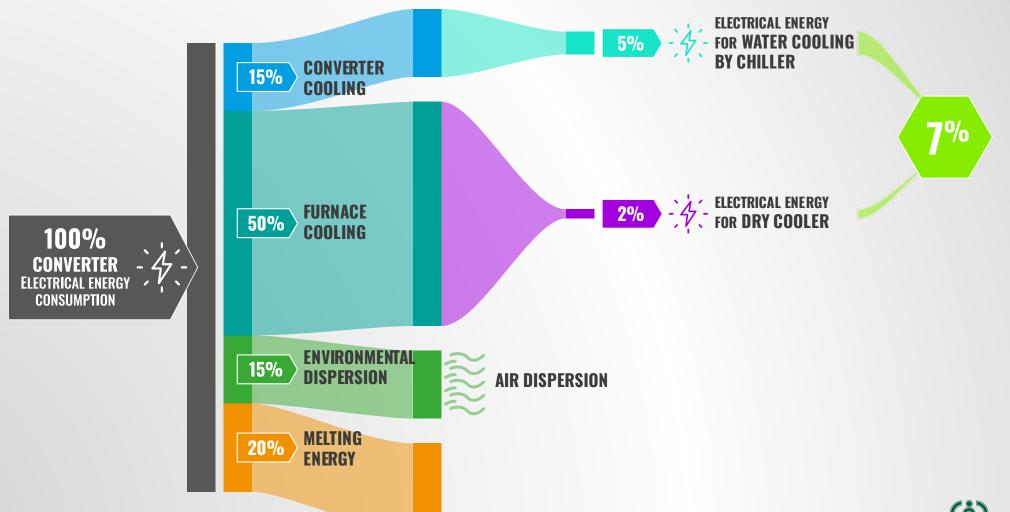






How to optimize cooling system

The new system will be...







How to optimize cooling system

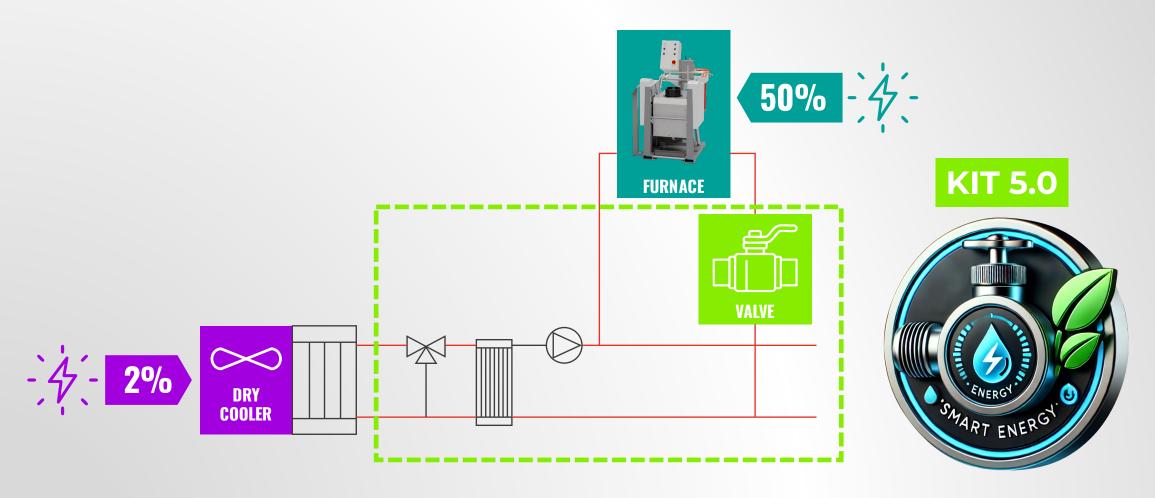






How KIT 5.0 works

A smart energy valve kit







IT Onecast: BENEFITS



Footprint reduction



3 x **T-Barmaster**



No spacers No mold lid



Ecological



Continuous cycle



Integrated weighting system



No immersion in water



Operator safety

What's more?



metal







OUR NEW ECO-FRIENDLY FURNACES



T-Barmaster Powerloop



T-Barmaster Spaceless



T-Barmaster
Spaceless
Good Delivery



IT Onecast





The present demands great challenges...

...we are ready!









