



Finishing™

Automated Logo stamping & Numbering System

Good Delivery gold bars 400 oz

Good Delivery silver bars 1000 oz

Au & Ag ingots

Smart Manufacturing for the Future



forging competitive clients™



Customized logo stamping and numbering of precious metal ingots



The Holding Disk

The main functioning piece of the T-Finishing is the large holding disc that either rotates or remains in place as necessary for each immediate step in the finishing operation.

Atop the holding disc a template disc of identical span is firmly fixed with preconfigured 'slots' at the outer edge to accommodate the required ingot in size and shape, such that it securely holds the ingot to be treated.

Loading

The ingots are either hand loaded or, optionally, they are loaded onto a conveyor belt that is immediately lower than the template. Due to that lower locus the ingot slides onto one of the appropriately positioned slots of the holding disc.

T-Press - The first modular station

The disc then partially rotates to align the ingot directly beneath the die. The press, with a previously fixed stamp, recognizes the presence of the ingot and proceeds. Once the stamping is complete, the holding disc makes another partial rotation, carrying the next ingot beneath the die and the already stamped ingot to the next modular station, T-Numbering.

T-Numbering - The next modular station

Here the ingot lines up underneath the electromagnetic micro-percussion pressure dot matrix stylus where it is recognized and sequentially marked per the client's request. The T-Numbering can mark various shapes, surfaces and materials. There is an optional sensing system for automatic surface detection to deal with uneven surfaces of up to 12 mm variation in altitude.

Additional modular stations

The T-Finishing is designed not only for the above two operations but also for additional work stations for other operations. For example a vision quality control station might be added to verify the physical dimensions of the ingot. Or perhaps a T-Brush or photo station might be required. One more partial rotation of the holding disc and the newly numbered ingot lies beneath another distinct potential station.

Exit

One more partial rotation of the holding disc and the ingot is removed either by the operator or, optionally by a conveyor belt that fits immediately below the template. As such the ingot falls onto the conveyor belt which carries it away from the work stations to an operator or cart.

OPTIONAL ACCESSORIES



Conveyor Belts

Automated loading and unloading of ingot molds

Thanks to this Accessory, the operator only has to load the ingoing belt with precious metal ingots to be stamped and then he may go to manage other jobs. He comes back to remove the stamped and numbered ingots on the outgoing belt.

Without this accessory, an operator is continuously needed around the furnace to handle the molds.



Press Machine - 5 & 23 tons

Press Machine will stamp the Logo of the Company over the ingot. The high performance "C" shape hydraulic press is designed for this special automated system.

Different pressing powers available upon request.



T-Numbering - Standard & Large

There are two models available.

The Standard one services a marking area of 150 x 100 mm for any type of relative small ingots. The Large Model services a marking area of 300 x 150 mm, designed for Good Delivery bars.



Rotating table for each shape of ingot

For each ingot size the operator can easily change the rotating table and fix the proper one accordingly.

Any shape available upon request.

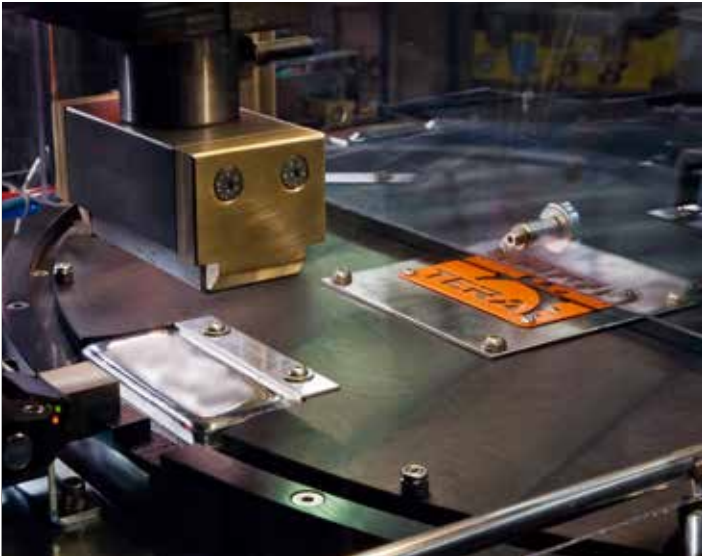


T-Router™

World wide access to the computer systems of our machinery for analytical diagnostics and subsequent modification / update / tailoring / fine-tuning of our machinery manipulating software.



PLC for the Furnace logic management + HMI touch screen



Press Machine Station for Logo stamping



T-Numbering Station for ingots numbering





Gold 250 grams ingot - Image courtesy of Italpreziosi SpA



Optional loading conveyor belt for ingots to be stamped



Gold kilo bar





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