

TAILORED AUTOMATION

Each Tera Automation machine can be conceived **as part of a modular line** which can be combined according to the company's needs and facility space. **Each machine can be fitted to existing machines and a full line can be developed over time.**

T-Brush™ may be combined with other machines, according to each operator's particular needs:

CONSTANT AVAILABILITY OF SPARE PARTS

Our support service is particularly efficient, because we provide **spare parts** which **are manufactured even with our own CNC machine, our warehouse is fully stocked with the most important spare parts and we guarantee a fast delivery.**

Along with the T-Brush™ machine, we provide an original Tera Automation spare parts package, so as to ensure that the machine always operates at full potential. Keeping a stock of the main spare parts is absolutely essential to guarantee production continuity and carry out simple maintenance tasks in an effective and timely manner. Our support team will create the spare parts package most suitable for your needs.

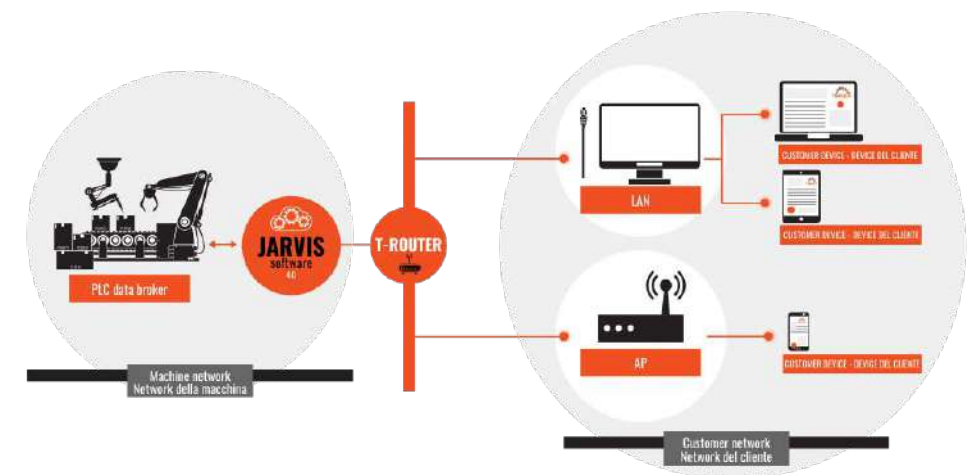
Different kinds of brush sets are always available for your T-Brush.



HOW TO CREATE YOUR SMART FACTORY WITH TERA AUTOMATION

In smart factories data acquisition systems monitor physical processes, by creating a **virtual copy of real production** and sending accurate data to the supervisor.

JARVIS is an IT product owned by Tera Automation, which enables the **interaction and connection between machines and the company's ERP system.** While the machine works, the system creates a database with the **real-time production data**, as chosen by the client, i.e. variables related to the machine.



www.tera-automation.com



HEADQUARTERS

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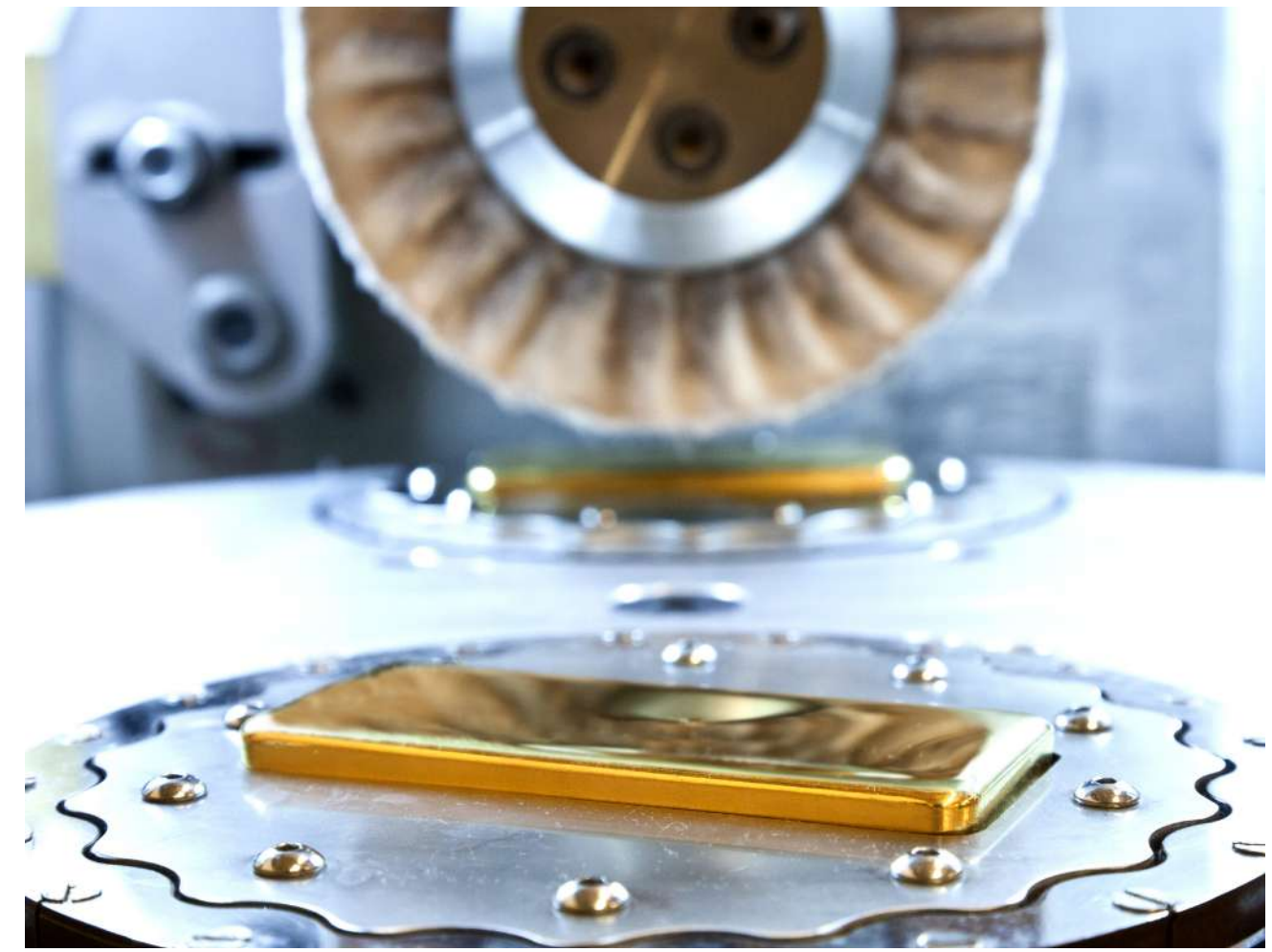
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TERA AROUND THE WORLD



- USA
- Korea & Japan
- Hong Kong
- Thailand
- India
- Turkey
- Spain



Automatic precious metal surface finishing & brushing machine for shining ingots



Smart Manufacturing for the Future

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forging competitive clients™

Automatic system for precious metal ingot finishing and brushing



WHAT IS T-BRUSH

Automating the ingot polishing process means optimizing the time required to carry out this operation and improving operators' working conditions. As a matter of fact, brushing machines, which are ever-present in goldsmith companies, require the constant presence of operators, who are exposed to many risks and compelled to carry out a low-skilled task.

The T-Brush™ machine is designed to **automate mirror finish polishing of precious metal ingots.**

Our brushing machine is specifically conceived to make sure that **operators never touch the brushes.** Operators will have to insert the ingots which need to be polished, and extract the polished ones, whenever this task is not carried out by an anthropomorphic robot.

The machine can be set choosing from all its different configurations, according to the size and weight of the ingots that the company wishes to polish.

It is equipped with **customizable templates and a set of interchangeable brushes.**

Because the brushing process generates waste, the T-Brush™ brushing machine is fitted with a **suction fan** which is also extremely useful to keep the working area hygienic and clean.

HOW IT WORKS

The T-Brush™ machine is equipped with **two working stations** installed on a **rotating table**, where templates are placed at a 180° angle: one working station operates inside the machine and the other one is located on the outside of the machine, where operators can access it. Ingots can be loaded manually or by a robot.

On the processing template there is a **rotating brush**, which can be made with different materials, ranging from soft to abrasive, according to the object and processing needs.

The brush is **enclosed inside the machine body** for safety and practical reasons, and only activates when the door is shut.

During polishing, the brush stays put and the ingot, aligned under the brush and placed in the **template**, rises to its level to be brushed.

With a 180° table rotation, the brushed ingot is brought to the exterior of the cabinet, where either operators or a robot can collect it.

In the mean time, that same movement brings the following ingot in the machine and places it under the brush, thus ensuring a **continuous processing cycle.**

THE ADVANTAGES OF AN AUTOMATED SOLUTION

- Flawless and customizable mirror finish polishing
- Operators carry out more qualified tasks
- Fast and safe processing
- No metal loss
- The whole process can be automated

T-Brush is available as:



PERIPHERAL EQUIPMENT



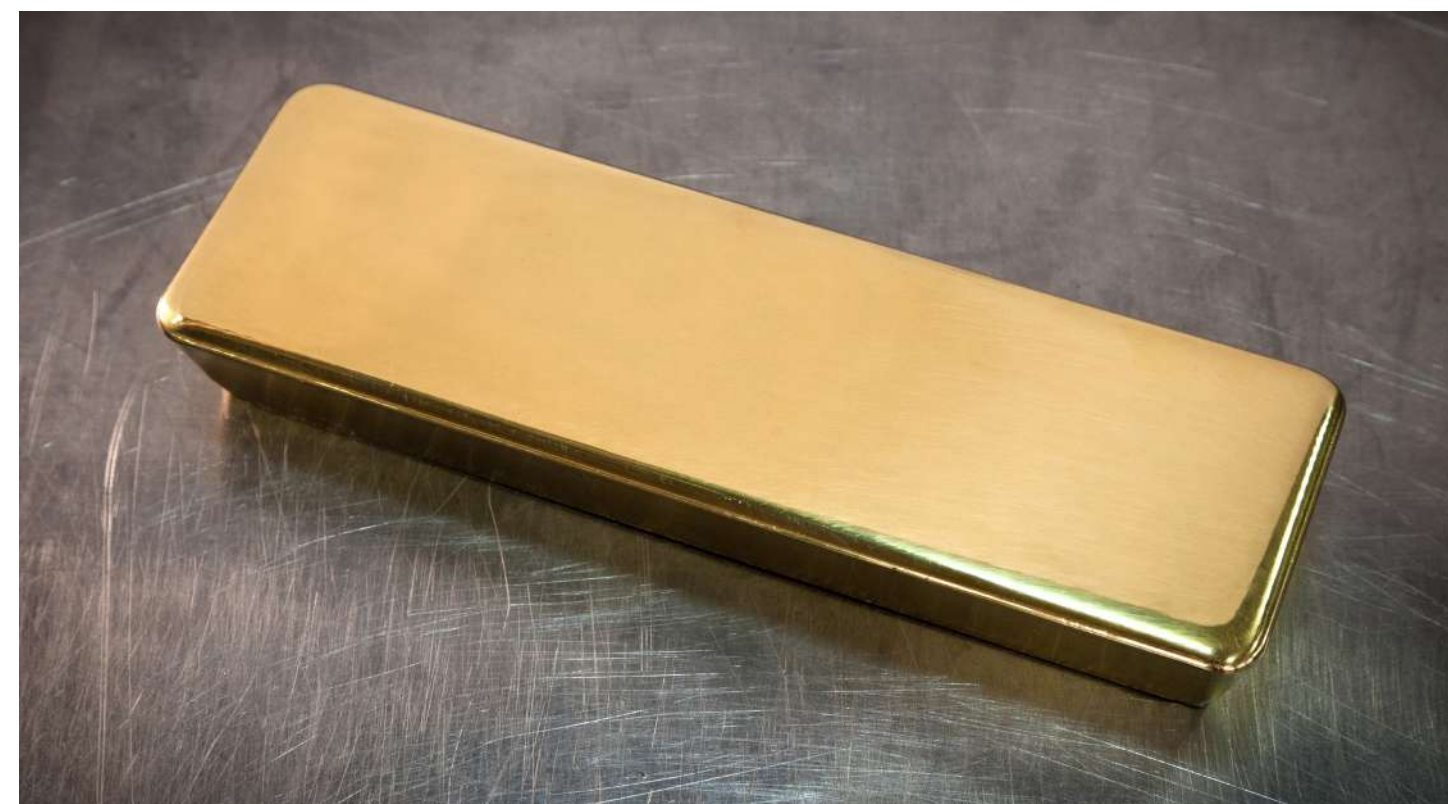
THE SUCTION CABINET

Highly Recommended

T-Brush is completed with a suction system with six filtering sleeves for a complete recovery of the possible precious metal particles and the dust which is released during the brushing procedure.

TECHNICAL DATA

- Suction fan diameter: 160 mm
- Dimensions (LxWxH): 800 x 700 x 1670 mm
- Weight: 250 kg



Version	Ma. abs. power	Hourly production	Managing	Voltage supply	Dimensions (LxWxH)	Weight
L	6 kW	100-120 pcs/h (Au/Ag kilobars) 50-60 pcs/h (100 oz Ag)	Touch control panel & PLC	400 V, 50/60 Hz	1000 x 960 x 1580 mm	650 Kg

