



KTV 1

AVP

**PILLOW PLATE WELDING MACHINE**

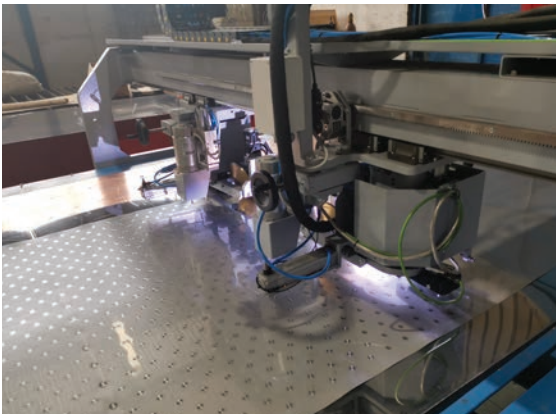
# PILLOW PLATE WELDING MACHINE: KTV 1



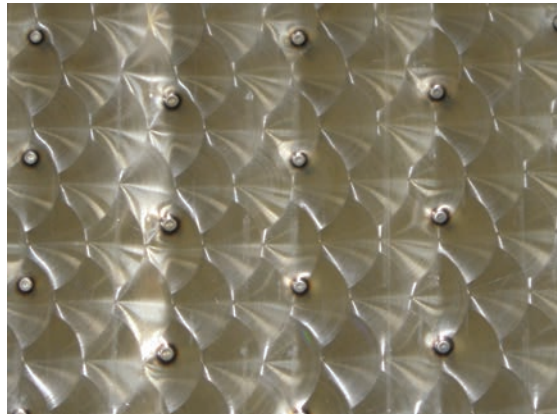
**KTV 1 (front)**



**KTV 1 (back)**



**KTV 1 (welding process)**



**WELDING & BRUSHING EXAMPLE**

The CNC pillow plate welding machine "KTV1" is used for **spot welding, longitudinal, and transverse welding**. It is specifically designed for **pillow plate (dimple jacket) welding**, commonly used as heat exchangers. The portal-type construction allows the operator to pre-position the entire welding piece and also only takes as much space as the size of the plate. The workpiece is securely fixed on the table, eliminating any possibility of misalignment. The welding process is fully automatic, and the resulting welds are robust enough to withstand inflation pressure. The program automatically calculates the spot positions with just a few parameters input. Using TIG (GTAW) instead of laser makes it possible to weld **directly on the edge** of the upper plate.

- Basic working table with copper surface, dimensions 2.000 mm x 6.000 mm,
- two welding heads (TIG process) with push wheels that turn around for 90°,
- each welding head has its own power source,
- each welding head has a torch that has a motorized height adjustment (while welding),
- complete control on the machine touch panel - voltage, speed, etc.,
- two servo motors (for each welding head) move welding heads transversal,
- two synchronized servo motors move the welding portal longitudinally,
- two grinding heads clean the weld spots (and create a decorative pattern),
- pressure for grinding heads and push wheels is individually set on the regulators,
- simple pneumatic clamping system for the plates,
- control panel, numerical programming and saving programs.

## **OPTIONS:**

- Video systems - welding cameras,
- laser welding head (TIG replacement),
- arc voltage control system.