

Pipes welding machine

and 3 tools

● **Mechanische Studien** ● **Realisierungen** ○ **Verkabelung** ○ **Steuerungen**

Combined with a set of specific tools, this machine **can weld 2 G1/2" tappings** on different types of pressed steel parts. One tube is welded and then the other. The **tube change is automatic** and pneumatically driven. The pneumatic feed is via a rotary joint. The connection to the tool is made in **one movement by a 2-way quick coupling**.

Welding can be 'flat' or inclined depending on the shape of the part. Tilting involves **elliptical joint tracking**. This function is provided by a cam of the same shape mounted on the tool and the torch carriage follows this trajectory.

3 axes of adjustment of the torch allow precise positioning of the torch.

The torch is protected from any interaction by **a disengageable support**. If this element is triggered, the information is sent to the PLC and the cycle is interrupted.

A welding curtain **protects the operator** from the light emissions generated by the process.

The mechanical part integrates all the necessary supports for the annexes (generator and wire feeder, electrical box, console, HMI).

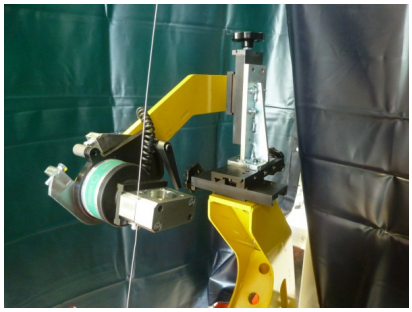
A **cooling control system** ensures that there is sufficient water flow to preserve the torch and interrupts it after a period of inactivity to avoid condensation.

SPECIFICATIONS :

- **Cycle time <25s**
- **Upgradeable tools for workpiece diameters from 200mm to 500mm**
- **Mass passage by tangent pad and wear compensation**







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