



# Upgrading a torch and its seal tracking

## Probing with a roller housing

● Mechanical engineering

● Realizations

○ Cabling

○ Machines

The objective of this project was to **refresh the mechanics** of weld seam tracking during the change of welding process.

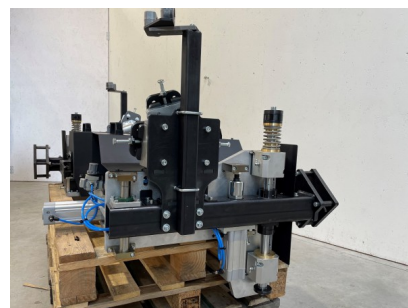
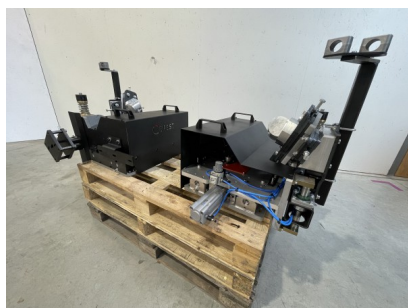
CEREST carried out the necessary **mechanical studies** to integrate a **new welding torch** with a **more complex layout** than the existing torch. The torch and its new tracking mechanics are installed **in place** of the old torch and its mechanics (which dated from the **1980s!**).

Joint tracking is achieved by a customer supplied **roller housing** which is **rigidly mounted with the torch**. The tracking mechanism allows the torch to follow the **height and depth of the joint**. Springs and cylinder ensure that the roller housing makes contact with the tank.

**Inductive sensors** detect the position of the torch and detect the loss of the probe if this should happen.

### SPECIFICATIONS :

- **Probing force**  $\approx$  60kN
- **Possibility to replace the pneumatic cylinder with an electric cylinder in the future**
- **Circular welding of a tank**
- **Supplied: 2 x 2 pairs symmetrical**



Reference : 3600

Project added the 15/11/21



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