CEREST
Ingénierie Industrielle - Machines spéciales



# Line of welding stations

## Automated operator stations

● **Mechanical engineering** ● **Realizations** ○ **Cabling** ○ **Machines**

This production line allows components to be welded into a shell.

The shell is handled by a **motorised gantry** and transported from station to station.

The arms of the 4 pairs of grippers are **mechanically independent**, which allows automatic adaptation to the length of the part. They will switch to **master/slave mode** when the shell is transported.

At the entrance, **a chain conveyor on a rotator** allows the tank to be received from the upstream part of the line.

The 3 following assembly stations have the following functions :

- Elevation of the shell to **working height**

- Rotation of the cradle to bring it into line
- **Return to the round** of the shell
- **Ovalization for coil insertion**
- Adaptation to different diameters and lengths
- Gauging of the tappings
- Channelling and suction of fumes
- **Operator safety** (BI, scanner, doors)

At the exit, a link conveyor allows this portion to be connected to the downstream part of the line.

**SPECIFICATIONS :**

- **Ø ferrule: 500 to 800mm**
- **Weight capacity : 500 Kg**



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