CEREST
Ingénierie Industrielle - Machines spéciales



ICW line

for tanks welding

Mechanical engineering **Realizations** **Cabling** **Machines**

This production line provides automatic handling of tanks from the welding machines to the workstation, with multiple positions for precise manual welding.

It comprises lifts, chain conveyors and an overhead transfer beam, enabling the handling of different tank sizes using gripping and rotating devices.

The conveyors move the tanks safely, whilst the rotators allow them to be easily positioned for welding. The transfer shuttle facilitates the entry and exit of tanks onto and off the production line, with rotations tailored to requirements.

The welding booths provide a protected environment thanks to curtains and extraction hoods.

The 3-bar test bench allows the tanks to be checked for leaks after welding, with cooling, inspection and any necessary corrections carried out directly at the workstation. Tank handling is fully automatic.

The system ensures an optimised production flow, with safety and ergonomics for the operator, whilst maintaining consistent tank quality.

SPECIFICATIONS :

• Designed for the automatic handling and transfer of tanks between the welding machine and workstations.

• Compatible with tanks from **Ø500 to Ø650 mm, with shell lengths ranging from 600 to 1600 mm**.

• Equipped with chain conveyors and rotators, enabling precise movement and rotation of the tanks.

• Integrated transfer shuttle to compensate for line misalignment and ensure the entry/exit of tanks.

• Secure welding booths, with protective curtains and fume extraction hoods.

• Gripping and rotation devices for optimal positioning of tanks at each station.

• Leak test bench for testing tanks under pressure, with inspection and correction possible directly at the workstation.

• Variable-geometry robotic gripper, capable of handling the entire range of tanks with precision and flexibility.

• Designed to optimise productivity, safety and quality throughout the production process.

CEREST
20 Rue des Frères Lumiere
68000 Colmar - FRANCE

EMAIL
cerest@cerest.com

PHONE
+33 (0)3.89.21.02.56

INTERNET
www.cerest.com









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CEREST
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