



COBOT 100 T
TIG WELDING ROBOTIC CELL





ROLLERI ROBOTIC

INTRODUCTION

THE COBOT 100T :

- **Guarantees a cooperation** between man and robot maintaining a **high precision** during the production of pieces .
- By-passes the concept of CAD/CAM programming as the operator programs point by point directly on the cell.
- Allows **repeatability** thanks to an incorporated storage inside the software.
- Facilitates **problem solving** inside a workshop dynamic

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THE STRUCTURE

ROBUST AND COMPACT
STRUCTURE

FORKLIFT OR CRANE
PICK UP POINTS

EMERGENCY STOP
LOCATED ON BOTH
SIDES OF THE CELL

AUTOMATIC SAFETY
DOORS

INTEGRATED SAFETY
FEATURES



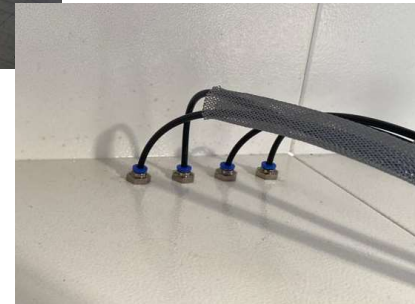
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WORKING AREA

- Two separate working tables (4ft x 4ft)
- Predisposition for table suction
- Central safety panel to divide the two tables if required.
- Two lateral doors for extra work-space.



Air intakes which act as a predisposition for pneumatic jigs and masks



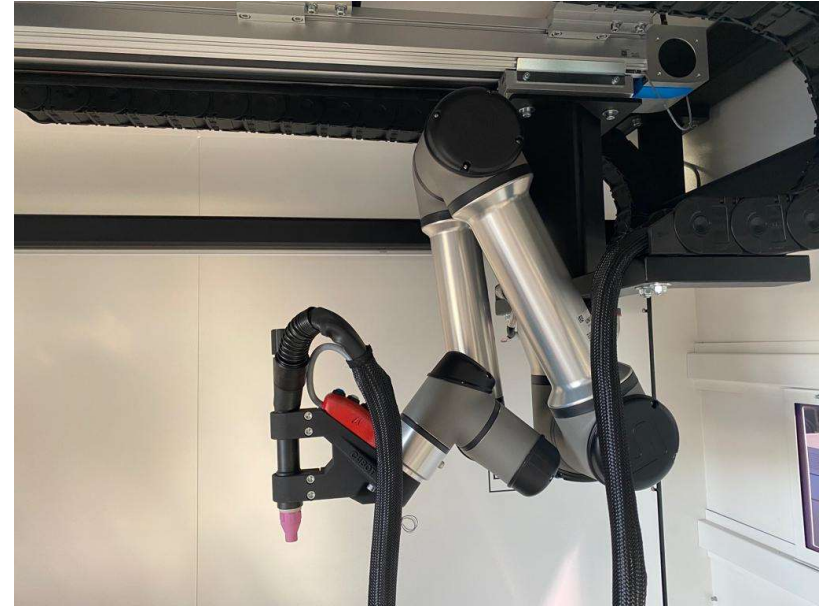
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THE COBOT

The cobot used inside the cell is known as UR 5 by Universal robot. The robot consists of six axes (3 radial and 3 rotational).

Being a Cobot, the robot collaborates with the operator at elevated capacities thanks to its safety features, avoiding collisions.

The welding torch has been positioned on the robot's head to guarantee maximum orientation throughout the movements.



Implemented linear guide seventh axis by Festo, allows the robot to move among working tables

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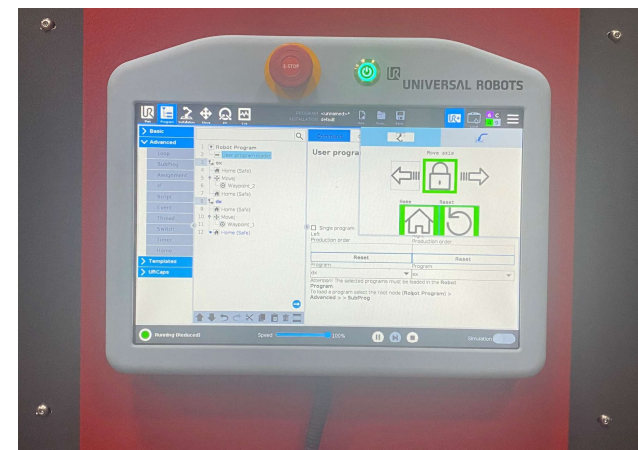
PROGRAMMING

Tablet with integrated program for both welding machine and COBOT with one interface

Welding parameters are automatically set by our software by only inserting material type, thickness and welding type

It's still possible for expert welders to manually insert parameters such as

- **Current**
- Welding frequency
- **Welding pulse frequency**
- Welding type: low-voltage, high-voltage and constant current welding



The free-drive button positioned on both the torch and the panels allows you to free all the robot brakes and direct the robot to the needed points manually.

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REMOTE ASSISTANCE

Platform for remote support with smart glasses and tablet for direct and real-time interface with the robotic cell.

Thanks to COBOTIC REMOTE System, service technicians can help the operator carrying out any operation and intervening to prevent any future machine breakdown.

When wearing the smart glasses, service technicians can intervene to solve any technical or mechanical problem of the robotic cell or any practical problem related to welding (or other) operation carried out.

The robotic cell undergoes ongoing monitoring of all its components.

3 separate cabinets for
UPS COBOT AND
MACHINE



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DIMENSIONS

