

# WeCobot Welding System

OLP Robotics

Feature-packed yet simple to use, the WeCobot turnkey welding system is designed as a tool for use by welders and operators, enabling them to rapidly increase productivity and combat the skills shortage crisis. With a complete system solution, implementation is fast and low risk, operators with no previous robotics experience can be trained and running the system in production within one day, freeing up their valuable time to focus on other tasks, or run multiple cobot welding systems at once.

Bringing together some of the most advanced cobot technologies with a range of add-ons available, the WeCobot system is designed for ultimate flexibility and is tailorable to many use case. Whether it's fixed benchwork, a mobile setup, or a mix of both, OLP Robotics will configure the package to suit each customers particular needs.

Whilst the system can be paired with any brand of welder, OLP Robotics choose to integrate with Fronius due to the unique and powerful ability to utilise the TAST signal for seam finding and tracking (with the optional advanced feature module). The WeCobot + Fronius system is capable of dynamically updating the weld path to keep the weld in the root during live welding.

OLP Robotics are closely involved in development with WeCobot and have successfully commissioned several systems throughout Australia. With a remote access module included, technical support and troubleshooting is available straight away without requiring any travel.



## Features

- Plug and play: pre-integrated system can be set up within hours
- Easy programming: Simple software interface and drag-to-teach programming means operators can build their own programs with minimal training
- Remote support: OLP Robotics can access the system remotely for fast support, troubleshooting and training
- Separation of weld settings and cobot motion: Utilise the full functionality of the welding equipment to set weld parameters, and use the simplified teach pendant to focus on motion control. Save weld parameter recipes for fast recall in motion programs.
- Optional advanced software features including:
  - Seam finding and tracking: compensation for misaligned parts or distortion
  - Multilayer welding: teach only the root path and set offsets for up to 80 additional passes
  - Weaving: customizable weave patterns
  - Wide range of optional hardware accessories for extended functionality



## Specifications:

### Software version required

Polyscope 5.5+

URCap 7.1+

### Dependencies

Power Supply: 32A / 415V (3 phase) and 10A / 240V (single phase)

Welding Consumables: Wire and Shielding Gas

Cobot mounting: can be included or supplied by user

### What's in the box?

- UR Cobot
- Fronius water-cooled welding equipment
- WeCobot hardware kit and basic software with manual
- Remote access device for support

A range of optional extras are available to tailor the solution to suit each customer. Extras include:

Cobot protective suit

Quick-disconnect devices for the cobot base and end effector

Magnetic bases

External axes and positioners

Advanced software modules: Touch Sensing and Seam Tracking, Multilayer, and Weaving

Customized jigs and fixtures

### License type

One time purchase or annual subscription, both possible

