

**Automatic Visual Soldering Robot I.C.T-VSR300**



**Introduce:**

Operation mode: Multi-axis drive manipulator and software control to achieve precise positioning of the welding head.

Welding method: High-temperature eddy current heating with a soldering iron.

Working principle: Fix the soldering iron on the robot, move to the specified welding coordinates, and automatically feed the wire at the tip; the soldering iron is welded at high temperature and engaged with the target.

**Features:**

1. Cost saving: High-efficiency operation is achieved by only one person, one person's efficiency amounts to 3-5 person efficiency;
2. X, Y, Z, R axis adopt quality step motors with its control system, making the machine run smoothly and precisely;
3. It is equipped with an automatic soldering tip cleaning device, which can improve soldering quality and prolong the lifetime of the soldering tip;
4. Break tin solder wire feeding system can pierce holes when feeding solder wire, it can reduce burst tin that causes flux remaining on PCB when soldering under high temperatures to improve the soldering quality;
5. High-frequency induction heating system has rapid temperature recovery time, heating element adopts silver coil which can ensure long lifetime;
6. Self-developed advanced software, fool-style programming with the wireless controller like playing game, all parameters can be set in one program, such as moving path, solder wire feeding quantity, soldering time, etc, very easy to use;
7. Optional smoke cover and smoke extractor can provide a very clean work environment;
8. Various soldering tips can meet different process requirements. customized soldering tips are also available;
9. One worker can operate 2-3 robots, what this worker does is only pick and place fixtures;
10. Robot is strictly customized based on requirements on products and soldering, in line with production line requirements.

**TOP Advantage:**

1. Spot soldering, drag soldering, automatic cleaning, and multi-angle soldering are available;
2. Position calibration, soldering dot array, parameter copy, automatic location, and skip being available;
3. Teaching programming enables customers to implement all types of hand soldering upon their requirements;
4. Program calibration achieves workpiece integral coordinate position compensation;
5. Program insertion and deletion make the program revised easily and rapidly;
6. Intelligent control system achieves accurate delivery of solder, speed, time, temperature, and quantity of solder can be adjusted and controlled accurately.

**Specification:**

Model	I.C.T-VSR300
Head Number	1
Platform Number	2
Processing Scope	580*280*80mm

Maximum Jig Size	250*280mm for each table
Solder Wire	Φ0.6~1.2mm
Temperature Control range	0~550C°
Temperature Control Accuracy	±1C°
Air Pressure Requirement	0.4~0.6MPa
Control Mode	Microcontroller+Touch Panel
Driving Mode	Precision stepping motor+Synchronous belt
Soldering Method	Point Soldering/Drag Soldering
Soldering Display	CCD+Screen
Iron Tip Cleaning	Automatic Air Cleaning
Working Temperature	Room temp~40°C
Working Humidity	20~90% RH
Dimensions	900*650*1100mm
Weight	150kg
Power supply	AC220±10%, 50/60Hz, 600W

\* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

**Thanks for choosing I.C.T.**  
**I.C.T looks forward to win-win cooperation.**  
**Thank you.**