4-Axis Desktop Soldering Robot
Model: STI441R

Features:

- High power soldering station with fast heat recover to ensure the stability of continuous solder.
- Automatic cleaning system for soldering iron tip to enhance production efficiency.
- I/O interface provided for external input and output control.
- Auto smoke suction system during soldering process.
- Optional vision position guide system to solve the jig and product X & Y axis position inconsistency.
- Optional safety grating and guard to ensure operator safety
- Optional tower light to show machine running condition.
- Optional N2 generator for soldering performance enhancement.
- Optional auto brush tip cleaner.
- Optional fume extractor.

Main Technical Parameters：

Brand name		ATOM
Model number		STI441R
Motor type used		Stepper
Machine casing		Iron
Machine Operation Voltage (V ac)		100 ~ 240
Soldering Station Power (watt)		150
Soldering Station Temperature Range (°C)		50 ~ 500 (Selection range)
Control Axis		4
Soldering iron		1
Movement Range	X-axis（mm）	400
	Y-axis（mm）	400
	Z-axis（mm）	100
	R-axis (°)	300
Speed Range	X-axis（mm/sec）	0.1 ~ 600
	Y-axis（mm/sec）	0.1 ~ 600
	Z-axis（mm/sec）	0.1 ~ 200
	R-axis（°/sec）	0.1 ~ 600
Position Repeatable Accuracy	X-axis（mm）	±0.02
	Y-axis（mm）	
	Z-axis（mm）	
	R-axis（°）	
Resolution	X-axis（mm）	±0.01
	Y-axis（mm）	
	Z-axis（mm）	
	R-axis（°）	
Program setting method		Point to point teaching (PTP)
Teaching Pendant File Capacity		Up to 999 files or Single file up to 60000 points
Processing File Capacity		Up to 255 files
Applicable Solder Wire Diameter (mm)		0.3, 0.5, 0.6, 0.8, 1.0, 1.2, 1.6
Environmental Conditions	Temperature（°C）	0～40
	Humidity（％）	20～90（no condensing）

Note: The movement range could be customized as per requirement