

### 3-Axis Desktop Soldering Robot

#### Model: STI441

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	<b>ATOM</b>	
Model number	<b>STI441</b>	
Motor type used	Stepper	
Machine casing	Iron	
Machine Operation Voltage (V ac)	100 ~ 240	
Soldering Station Power (watt) - 262	150	
Soldering Station Temperature Range (°C)	50 ~ 500 (Selection range)	
Control Axis	3	
Soldering iron	1	
Movement Range	X-axis (mm)	400
	Y-axis (mm)	400
	Z-axis (mm)	100
Speed Range	X-axis (mm/sec)	0.1 ~ 600
	Y-axis (mm/sec)	0.1 ~ 600
	Z-axis (mm/sec)	0.1 ~ 300
Position Repeatable Accuracy	X-axis (mm)	±0.02
	Y-axis (mm)	
	Z-axis (mm)	
Resolution	X-axis (mm)	±0.01
	Y-axis (mm)	
	Z-axis (mm)	
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	
Soldering Iron	9018M	
Auto smoke suction valve	Built-in	
Auto soldering tip cleaning (Air blow & Brush)	Built-in	
Tower Light	Built-in	
Fume Extractor (Single Hose)	Optional	
N2 Generator Plus Soldering Iron	Optional	
Visual camera and monitor	Optional	
Environmental Conditions	Temperature (°C)	0~40
	Humidity (%)	20~90 (no condensing)

Note: **The movement range could be customized as per requirement**