

DESKTOP SOLDERING ROBOT MODEL ETD9484E



Description

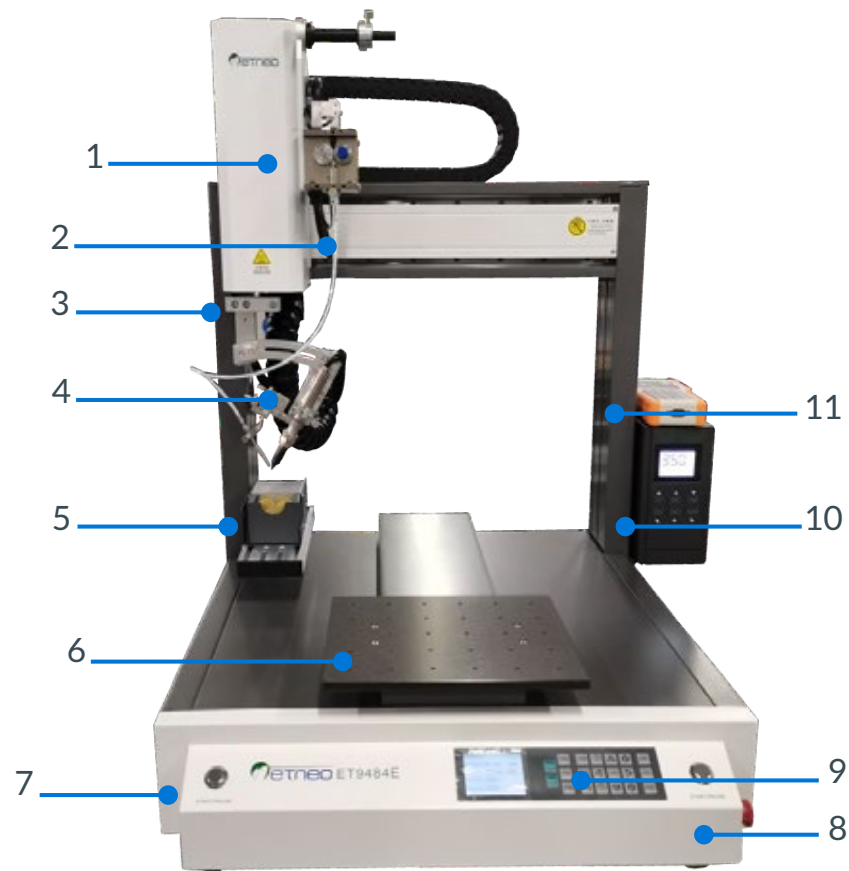
Desktop type Soldering robot with 4 Axis (stepper motor and leadscrew), the working area is 400*400mm (X - Y axis), this kind of robot can be used as a standalone machine placed on a table. It's assembled with the solder wire feeding system with sensors/alarms for wire presence and for blocking wire fixed directly on the top of Z/R axis. There is the station for temperature control model C-378FA with alarms (sensor error, heating element error and ready temperature).

The programming of the machine can be made with their Teaching pendant, able to set and store the programs (with 999 programs, 60.000 solder points and a lot of conditions for every point). Brush system for tip cleaning ET310C is a standard option always included as per the tube for smoke absorbing (this tube should be connected to Etneo smoke absorber units or directly to other source existing in the plant).

Specifications

Input voltage range		220V AC 50/60HZ
Power consumption		300W
Axis number		4
Movement Range	X (mm)	0.1~400
	Y (mm)	0.1~400
	Z (mm)	0.1~100
	R (degree)	±180
Movement Speed Range	X (mm/sec)	0.1~800
	Y (mm/sec)	0.1~800
	Z (mm/sec)	0.1~300
	R (degree/sec)	0.1~800
Repeatability	X/Y/Z (mm)	±0.01
	R (degree)	±0.02
Resolution	X/Y/Z (mm)	0.01
	R (degree)	0.01
Payload Weight	Z&R Axis (Kg)	3
	Y Axis (Kg)	8
Demo File Qty.		Max 255 files, Max 60000 points
Process File Qty.		Max 128 files
Motion Control		Motion Control PCBA + Teach Pendant
Noise		<70dB (Measure in the distance of 1m)
Operating Ambient	Temperature	0~40°C
	Humidity	20%~90% (No condensation)
Temperature stability		±3°
Weight		55(Kg)

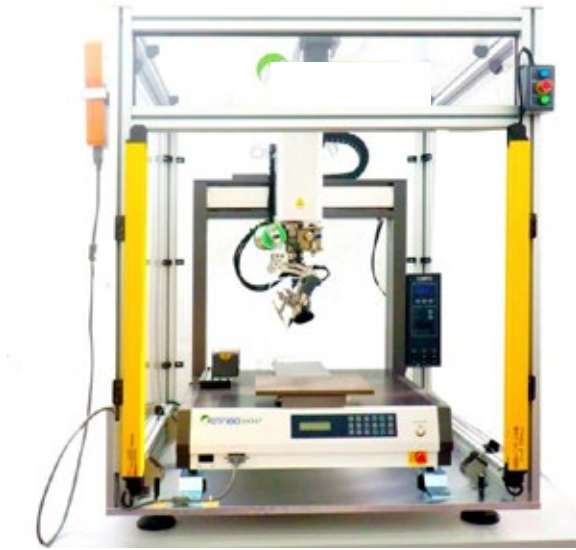
Main Parts Included



Item	Part Name	Item	Part Name
1	Wire feeder device	7	Start/Pause button
2	X Axis module	8	Emergency stop button
3	R axis module	9	Operation panel
4	Soldering iron	10	Heating controller
5	Tip cleaner	11	Teach pendant
6	Fixture baseplate		

Options:

Complete Cell with Bottom Plate and Safety Cover



Example picture

Micro CCD Camera

Details of CCD Camera:

1. The camera is used for monitoring only the soldering process.
2. To prevent from being polluted, it needs to be used with fume extractor.
3. Focus Distance: 70-80mm
4. Resolution: 480 TV line
5. Built-in LED light adjusting

Smoke Absorber Units Single or Double



Examples of installations of robot

The unit is a Fume Purifying & Filtering System for cleaning of both particles and gases. The unit is single fuming arm design and during the process of soldering, laser marking, laser carving, printing etcetera, to be used at filtrating the harmful substances, such as hydrocarbon, cyanide etc.

For good efficiency, it designs a Triple-filter system: pre-Filter, middle filter and main filter which including HEPA (high efficiency) filter and gas filter. The pre-filter with large area ASHRAE and the middle filter can filter the bigger powders for prolonging the main filter's life. The HEPA cleans the gas and powders filtering from the pre-filter and then output them to the gas filter, which with the carbon and other chemical combination, filters off the deleterious substance and then outputs the clean air.



Technical Specifications

Specifications	Single Unit	Double Unit
Pression	2200Pa	3000Pa
Volume of air	200m3/h	240m3/h
Capacity of extraction	160m3/h	2*100m3/h
Efficiency of filters	0,3 micron 99,97%	0,3 micron 99,97%
Power consume	120W	250W
Noise	< 52 db	< 65 db
Length of arms	1,5 mt.	1,5 mt.
Voltage	230V	230V
Dimensions	400x230x350mm	470x230x500mm