

HAKKO FU-601 (Included with HU-200 Soldering Robot)

SPECIFICATIONS

Model	FU-601	
Part No.	FU601-40X (L-shape Iron)	
Input Voltage	120 VAC, 50/60 Hz	
Output Voltage	29 V	
Power Consumption	300W	
Temperature Range	50° - 500°C / 120° - 940°F	
Outer Dimensions (W x H x D)	145 mm x 107 mm x 211 mm / 5.7" x 4.2" x 8.3"	
Weight (w/o cord)	4.0 kg / 8.8 lb	
ESD-Safe	Yes	
Handpiece	FU-6002	
Power Consumption	260W / 29V	
Tip-to-Ground Resistance	< 2 Ω	
Tip-to-Ground Potential	< 2 mV	
Heater	Composite Ceramic Cartridge	
Tips ¹	TX1 and TX2 Series	
Cord Length	5 m / 16.4 ft.	
Total Length (w/o cord) ²	194 mm / 7.6"	168 mm / 6.6"
Weight (w/o cord) ³	171 g / 0.38 lb	173 g / 0.38 lb

¹ Tips not included

² As measured with TX2-4XD tip installed

³ FU-6002



ROBOHAKKO

AUTO-SOLDERING



HU-200

HU-200

SPECIFICATIONS

Model No.	HU-200
Power consumption	300 W ^{*1}
Stroke	X axis: 400 mm Y axis: 300 mm Z axis: 200 mm θ axis: ±200 degrees
Payload capacity	Y axis: 20 kg (jig table)
Speed	X/Y/Z axis: 1 to 800 mm/sec., θ axis: 1 to 800 degrees/sec.
Repeatable position accuracy	X/Y/Z axis: ±0.01 mm, θ axis: ±0.01 degrees
Motor type	X/Y/Z/θ axis: Servomotor, Solder feed: Stepping motor
Noise level	56 dB
Position teaching	Remote teaching (JOG)/ Numeric entry (MDI)
Teaching style	Direct teaching by joystick Offline teaching by tablet PC
Soldering tip	TX1: 140W ^{*2} , TX2: 300W ^{*2}
Air	Not required
External input/output	Input: 20 Output: 12 (NPN) (2 places for cleaner)
Operating environment	Ambient temperature range: 0 to 40°C (without condensation or freezing) Ambient humidity range: 85% or less RH (without condensation or freezing) There shall be no corrosive or combustible gas. There shall be no exceedingly dusty.
External interface	USB x 4 (1 place for PC)
Dimensions	600 (W) x 910 (H) x 650 (D) mm
Weight	50 kg

^{*1} For the power supply and power consumption for soldering iron unit FU-601, see the website.

^{*2} For the soldering tip type and size, see the website.

Solder feed setting range

Number of solder feed programs	250 conditions (max.)
Solder feed amount	0.1 to 99.9 mm
Solder feed speed	0.1 to 99.9 mm/sec.
Solder return amount	0 to 20.0 mm
Solder return speed	0 to 99.9 mm
Heating time	0.1 to 9.9 sec.

* The above values show the values for primary soldering.

* For the secondary and tertiary soldering, all items can be set from 0. Unless the secondary feed speed is input, the setting operation will be cancelled. If setting "0" or "blank" to any item, the following steps can be skipped.



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ROBOHAKKO

AUTO-SOLDERING

EASY TO OPERATE 4-AXIS + 1 FEEDER CONTROL SOLDERING ROBOT SYSTEM



1 Touch Screen Tablet

A touch screen tablet provided as standard equipment allows you to set programming and soldering conditions without having to connect an external PC.

2 Pre-Installed Software

Pre-installed programming software makes creating soldering programs easy to learn. The software enables you to control solder feed, the number of accumulated solder points, dwell time and much more.

3 *Barcode Reader

Reading the barcode and/or scanning the QR code attached to a PWB using a barcode reader enables you to select soldering programs automatically, minimizing worker mistakes.

*Barcode Reader is optional not included

4 Joystick Controls

The joysticks give the user better control by allowing you to adjust the inch length and jog speed. This allows you to perform more delicate and difficult position adjustments with much more precise accuracy.

5 Tip Cleaner

A brush-type cleaner is provided to keep solder and excess burned flux off of the tip, helping to maintain the tip life.

6 Built-in Solder Feeder

The Hakko HU-200 has a built-in solder feeder with a flux splash prevention function. You can control the amount of solder being fed to the tip with the pre-installed software.

7 Interchangeable Handpiece

The Hakko HU-200 comes with an interchangeable handpiece to make the tip replacement process quick and convenient. To make the tip changing process even quicker an additional handpiece can be prepared and ready to be swapped when needed.

8 Tip Alignment

The tip can be angled up to 60° to accommodate a variety of solder points. Having the solder feeder closer to the tip also allows for better repeat connection and less solder waste.

HAKKO HU-200
AUTO-SOLDERING SYSTEM

