

Features:

1, Based on the Company's revolutionary, innovative design and meeting existing demands of the communication market, this three-in-one machine uses the latest chip technology and integrates a 30V/5ADC power supply, hot air gun, and soldering station! The machine is more space-efficient and is practical, powerful, and energy-efficient.

This one machine can basically meet all routine application needs!

2, Temperature controls utilize core technology, adopting microprocessor-PID programming for high-speed 100ms real-time tracking of air gun outlet temperatures and soldering iron tip temperatures, with real-time calibration! Outlet temperatures are extremely stable.

3. With PID high-speed 100ms rapid temperature calibration, conversions are energy-efficient, providing constant temperature power consumption at levels much lower than comparable machines, equating to greater energy savings!

4. YH soldering iron handle wire employs a high-temperature silicone wire (undamaged when 300° soldering tip contacts silicone wire for 30 seconds); the heating element employs an imported high-power heating element for fast temperature compensation, particularly suitable for desoldering crude terminals, large joints, and difficult to reach spots, not to mention general solder joint desoldering.

5. High-precision DC-stabilized power supply features continuously adjustable output voltage of 0-30V DC and output amperage of 0-5A. The power supply also features overload protection for high precision and reliability. The machine also has a voltage measurement interface and can replace high-precision digital voltmeters for DC voltage readings.

6. The air gun handle wire similarly employs a high-temperature silicone wire, a silent brushless-motor fan, stainless steel tubing, and a cutting-edge ceramic-framed heating core for extremely stable and reliable performance!

7, The unique ABS fan anti-lock function allows for maximum safety. When the fan unexpectedly ceases function and work stability can no longer be controlled, the system will immediately cut off the air gun power supply to ensure safety of the user and the environment.

8. Pioneering with handle safety protection, an industry first, a docked handle in the handle holder is required each time prior to machine operation. If not (placed) in the handle holder, the operator will not be able to detect compliance with safety instructions and the machine will not work. The purpose of such a function is to prevent handle misplacement or accidental placement in unsafe or flammable (work) locations that could lead to undesirable consequences.

9. Celsius/Fahrenheit Display Temperature Function: To satisfy market demand in different regions, the Company has designed a temperature display mode.

10. A/mA conversion function.

Information regarding PID programming:

The core algorithm sets a frequency for measurements, comparisons, and execution to be divided into rapid 20ms, high speed 100ms, and fast 200ms

hot air gun and soldering iron temperature controls! PID is one of the most important parameters for temperature accuracy and stability! Rapid 20ms is the fastest algorithm for AC220V 50Hz applications.

Cycling at 20ms for each 50Hz half-

wave the program already has precise control of every power supply cycle--an industry first!

A variety of high end YIHUA hot air gun models employ rapid 20ms cycles, and the soldering iron temperature calibration is set to the two standards of high speed 100ms and fast 200ms cycles as the temperature sensing location is within the ceramic heating core.

Taking time for temperature conveyance to the soldering iron tip and back, high speed 100ms cycles provide optimal control speeds! (the vast majority of existing programmable cycles in industry can only reach 200ms--500ms)

Parameters

Rated Voltage	AC 220V±10% 50Hz	
Total Power	≤1000W	
300℃ Constant Temperature Power (High-Speed PID Programmed to Energy Savings)	250W±10%	
Operating Environment	0~40℃ Relative Humidity<80%	
Storage Temperature	-20~80℃ Relative Humidity<80%	
Dimensions		
Weight	7.26kg	
parameters		
Rated voltage	AC 220V±10% 50Hz	
Total power	≤1000W	
300℃The thermostat power of (high-speed PID programmable energy saving)	250W±10%	
Working environment	0~40℃ relative humidity<80%	
Storage environment	-20~80℃ relative humidity<80%	
Dimensions		
Weight	7.26KG	
Parts parameters	Hot air rework	Soldering iron
Operating Voltage	AC 220V±10% 50Hz	AC 26V±10% 50Hz
Output power	720W	75W
Temperature range	100℃~480℃	200℃~480℃
Air Supply Mode	Brushless-Motor Fan	---
Air Flow	120L/min(MAX)	---
Temperature Stability	±1℃ (Static)	±1℃ (Static)
Display Type	Red LED display	Red LED display
Calibration Mode	The PID digital program	The PID digital program
	proofreading	proofreading
PID Temperature Calibration Cycle	Rapid 20ms	High-Speed 100ms
Heating Core	Ceramic columned heating	Imported heater

	element.	
Standard nozzles/tips	(10mm,8mm,5mm,13mm) 4 PCS nozzles	B
Tip ground impedance	---	<2Ω
Tip of ground voltage	---	<2mV
Power Supply		
Operating Voltage	0~30V	
Output Power	0-5A	
Protection Mode	Short Circuit Over current	
Voltage Display Mode	Red LED Digital Display	
Current Display Mode	Red LED Digital Display	
Load Stability	<0.01±2mv	
Ripple and Noise	<1mv rms (RMS)	

Application Scope

- 1) Electronic product assembly for industrial production
- 2) Product development for scientific research departments
- 3) Repair industry for electronic product inspection and maintenance
- 4) Soldering operations for electricians in various enterprises and institutions
- 5) Electronic assembly for electronic technology enthusiasts
- 6) Student skills training for a variety of electrical colleges
- 7) Suitable for a variety of component desoldering and soldering, such as: SOIC, CHIP, QFP, PLCC, BGA, SMD, etc.
- 8) Suitable for heat shrinking, drying, painting, adhesive removal, thawing, preheating, plastic welding, etc.
- 9) DC power supply suitable for scientific research, product development, laboratories, laptop maintenance, etc.