

PRECISE RESISTANCE SOLDERING MACHINE WZ-04LB



Description

- Using IGBT inverter technology, MCU and modern power electronic technology development of new power supply
- AC-DC-AC-DC conversion technology, time control can achieve millisecond accuracy
- DC output to significantly improve the welding process
- The use of inverter technology makes the device small size, energy saving and efficient
- For copper and aluminum and other non-ferrous metal materials, spot welding, alloy materials, spot welding, precision parts of the spot welding

Precision resistance welding machine using AC-DC-AC-DC conversion technology to implement DC spot welding, compared to frequency AC spot welding technology, DC spot welding high quality, fast welding, energy saving effect, small size, light weight equipment . Using the MCU precise control of welding process, real-time monitoring and display the current welding current and other parameter values.

Precise resistance soldering machine features

- 1KHZ,4KHZ,8KHZ inverter,high control precision.
- Soldering parameters adjustment and soldering process display by LCD.Intuitive graphical user interface.

Features

- Constant current, constant voltage, constant power modes and pulse width control mode
- Trinal pulse waveforms programmed in current, voltage or power control mode. Up & Down Slope control
- Monitoring the setting parameters with up and down limits
- Using IGBT inverter technology, MCU and modern power electronic technology development of new power supply
- Inverter bridge using soft-switching technology, smaller switching losses, reduce electromagnetic interference
- 20 groups of parameters stored, can be used to store a variety of welding types of product parameters
- Inverter bridge current automatic shutdown, and enhance system protection
- Fast response, the use of higher inverter frequency (4kHz, 1kHz). The power-on time control period is 0.25 ms or 1 ms.

Specifications

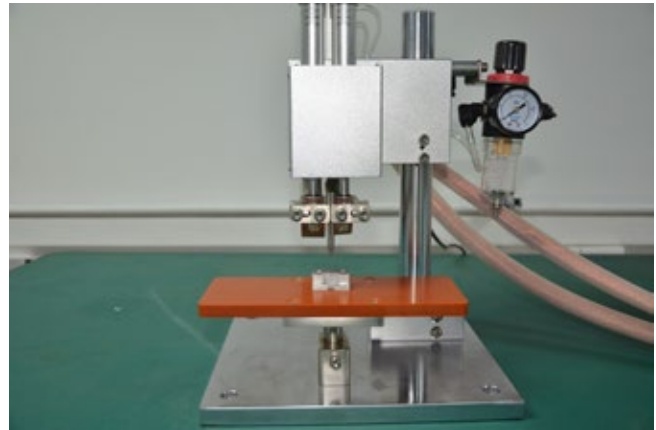
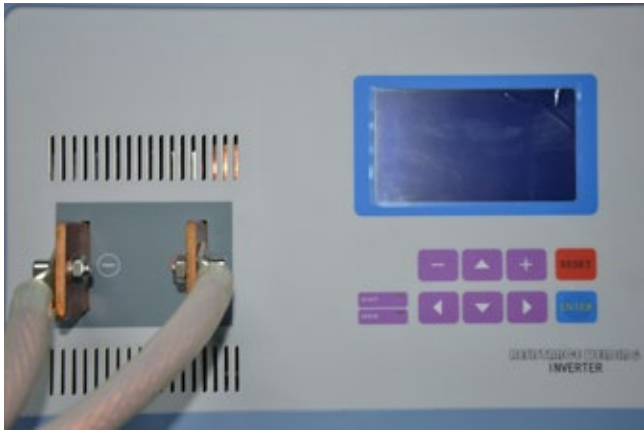
MODEL	INPUT VOLTAGE (V)	RATED POWER (KVA)	MAX. OUTPUT CURRENT (DCA)	CONTROL MODE	DUTY CYCLE (%)	INVERTER FREQUENCY (KHZ)
WZ-04LB	3~380V	12	4000	Constant current mode/Constant power mode/ Constant voltage mode/ Constant pulse width mode	10	4
	WELDING CYCLE TIME	# OF SOLDERING PULSES	CURRENT RAMP-UP AND RAMP-DOWN CONTROL	SOLDERING PARAMETERS STORAGE QUANTITY (GROUP)	DIMENSIONS (MM)(L*B* H)	WEIGHT(KG)
	11	3	Have	20 groups	460*400*300	33

General

Inverter resistance welding power supply: DC output.

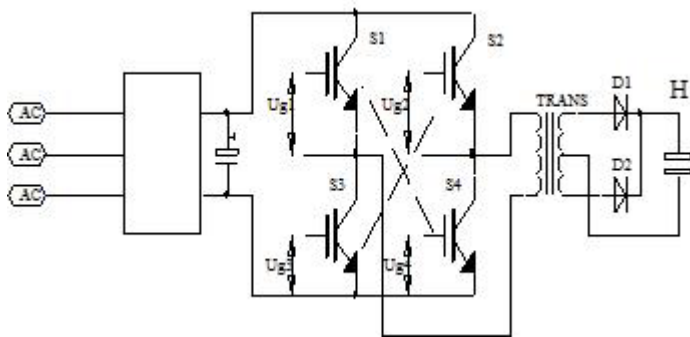
Welding current is pulsating DC, waviness is small, no AC zero cross-heating workpiece

shortcomings, heat concentration, improve the thermal efficiency of welding for non-ferrous materials and some difficult welding of welding materials particularly suitable for welding process stability, welding quality Significantly increased. At the same time the electrode life has been extended.



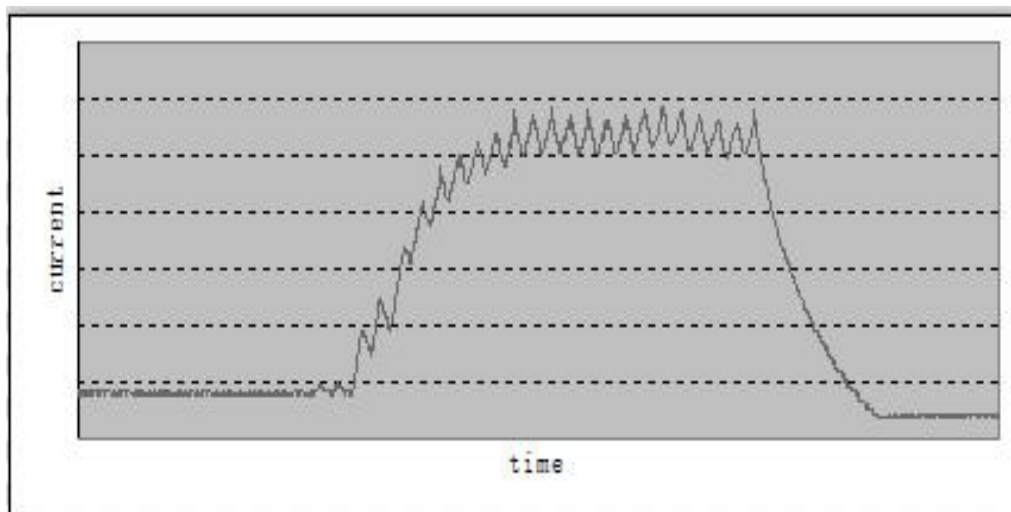
By adjusting the size of the air pressure to control the soldering pressure.

Electric



Using AC-DC-AC-DC conversion technology, making the time control can reach milliseconds and accuracy, control response and control accuracy has been greatly improved. Inverter bridge current automatic shutdown, and enhance system protection.

Current soldering waveform



Regulation



Separate increase pressure adjustment knob: Together with the air pressure to adjust the soldering pressure.



Throttle valve : By controlling the cylinder throttle valve to adjust the rise and fall speed.

Soldering Electrodes



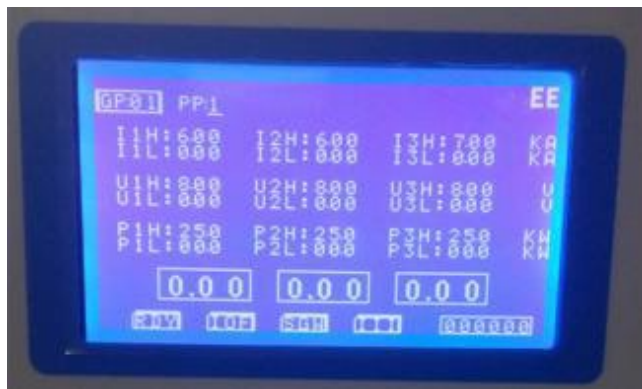
Customized soldering electrodes.
Customized fixture.

Electrode: The electrode is made of tungsten alloy, has a strong high temperature hardness and strength, at room temperature and high temperature environment has good electrical conductivity and thermal conductivity. And strong antioxidant capacity.

Software System



Three-stage heating setting, with the current slow rise and slow down function, the time is set to (0-250ms or 0-1s), suitable for complex welding process needs. The soldering current is displayed on the LCD screen in real time.

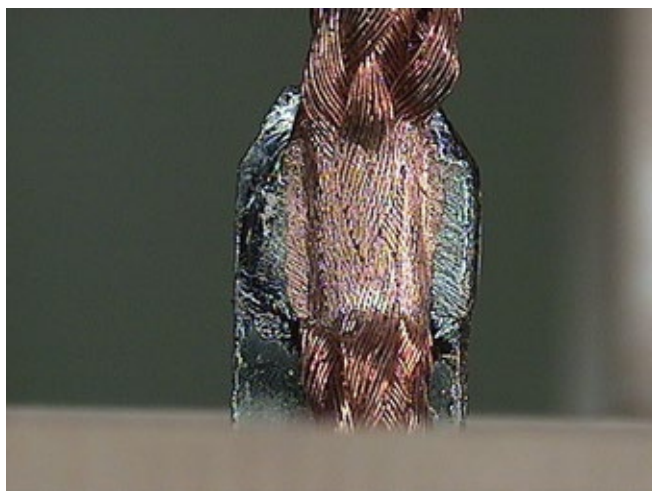


Current upper and lower limit setting interface, real-time monitoring current current is beyond the setting range.



Warning interface: Displays the current error.

Application



A multi-strand copper wire is soldered to a copper sheet plated with zinc.



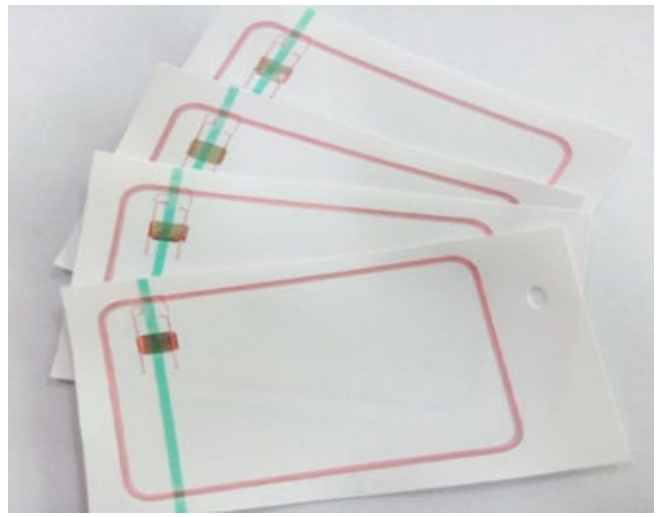
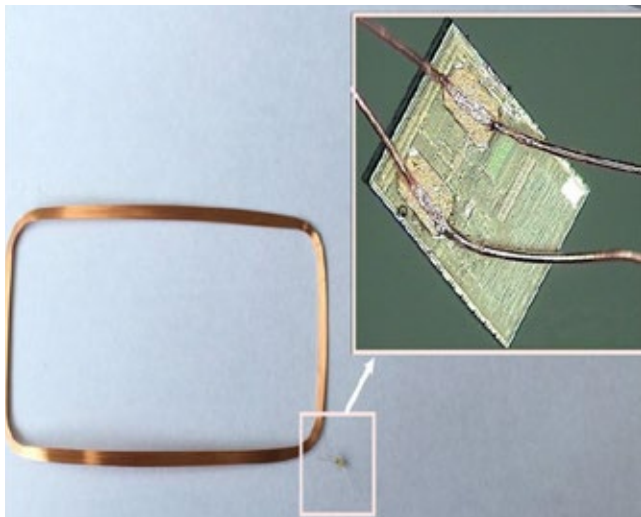
A multi-stranded wire was soldered to a nickel-plated copper foil.



LED light bar soldering



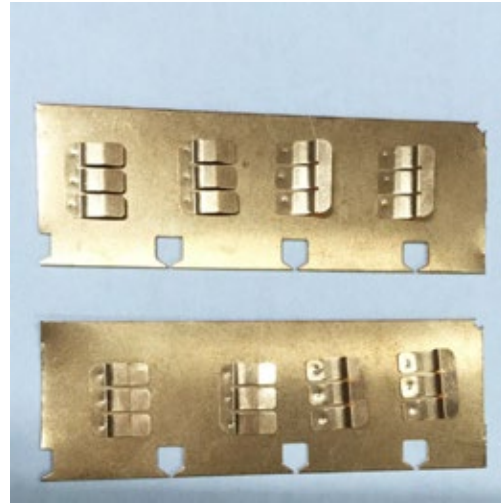
Semi-finished products



Enameled wire diameter 0.03mm ,This is the soldering of enameled wire products, such as some smart card IC card and other cards, which is the need for soldering chip.



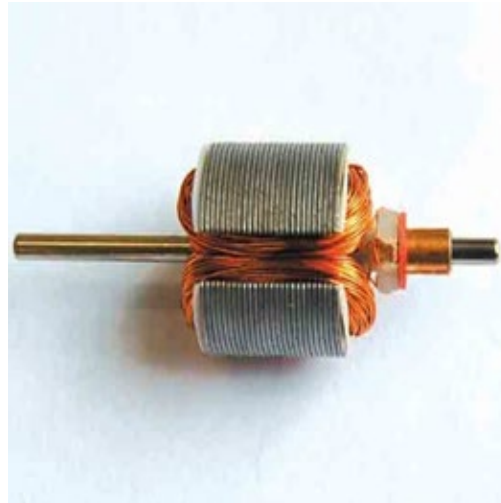
Copper, stainless steel pieces, and so are the hardware with a resistance spot welding.



Copper, stainless steel pieces, and so are the hardware with a resistance spot welding.



The motor rotor inside the enameled wire and the terminal of the welding, is the use of resistance spot welding.



Standard Configuration

- DC spot soldering power supply
- Pneumatic spot soldering machine
- MCU control system
- 1 year parts warranty.

Optional Configuration

- Customized soldering electrodes(soldering head)
- Customized fixture