

VAPSON[®]

*A part & parcel of your day-to-day
Jewellery Manufacturing Requirements*

L-W220 HIGH POWER LASER SPOT WELDER



Profile

VAP-L-W220 laser spot welding machine is used for perforation and spot welding of sand hole for gold and silver jewelries. Laser spot welding is an important application of laser materials processing technology. Spot welding is thermal conduction, namely, the laser radiates the surface of the part, and the heat on the surface expands inside through heat conduction. By controlling parameters such as laser pulse width, energy, peak value and repeating frequency, the part will melt, and thus forming specific molten pools. Due to its unique benefit, the product has been successfully applied to gold and silver jewelries processing, and welding of small-sized parts.

Advantages

Fast, efficient, deep, little distortion, little affect area, quality welding, welding points free from pollution, and energy saving.

It's 200watt out put laser power, it's easy to weld silver; brass/copper; Aluminium etc.The stable laser source design, high precision laser beam output.

Characteristics

- Energy, pulse width, frequency and facula can be adjusted within a wide range to achieve different welding effects. The parameters are adjusted by the control rod in the sealed cavity, simple and efficient.

- Ceramic focusing cavity imported from the U.K. is employed, corrosion resistant, high temperature resistant, efficient in optical/electrical conversion. The focusing cavity's service life is 8 to 10 years, and the service life of the xenon lamp is over 8 million times.

- World-leading automatic light shielding system is employed to remove stimulation of light on eyes during operation.

- 24-hour continuous operation, with stable operating performance, and free from maintenance within 10000 hours.

- Personalized design in compliance with ergonomics principles.

Samples



Technical specifications

| L-W220 laser spot welder | |
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| Model | L-W220 |
| Characteristics | |
| Wavelength | 1064nm |
| Laser pulse frequency | 0.5 Hz-40 Hz |
| Max.laser output power | 200W |
| Pulse energy | 150J |
| Min.melt pool | 0.1mm |
| Welding depth | 0.05mm-6mm |
| Laser pulse width | 0.5ms-20ms |
| Spot size | 0.1mm-3mm |
| Power consumed | 6 KW |
| Power supply | 220V/single phase/50Hz/20A |
| Protective gas | One channel |
| Microscope | 15X microscope |
| Dimensions(length x width x height) | |
| Main frame | 100mm x 480mm x 1080mm |
| Cooling system | 400mm x 350mm x 880mm |

LOOKING FORWARD TO YOUR VALUED ORDERS, INQUIRIES AND YOUR VISIT.