

# Laser Spot Welding Machine

## CML-W 150



### Technology

The Principal of Laser welding machine for jewellery 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 sample will melt, and thus forming specific molten pools. Due to its unique benefit, the product has been successfully applied to gold and silver jewellery processing, and welding of small-sized parts and porosity filling.

### Design

Personalized design for hassle free operation in compliance with ergonomics principles.

### Dependability

Sturdy Frame Structure For lowest vibration makes it, ideal for factory use & trouble free operation.

### Display

New Touch Screen display for easy operation.

### Ease

Upto 10 memories cells for storing working parameters permanently. Big Inside chamber for easy movement of big samples.

### Advantages

- Fast, efficient, deep, quality welding.
- Welding points are free from pollution.
- Saves time & energy.

### Application for Jewellery Industry :

- Joining of different metals.
- Repairing of Precious Items with temperature sensitive area close to Diamonds & Gems stones.
- Assembling of jewellery parts.
- Holes and porosity filling.
- Antique repairing.
- Titanium spectacle frames repairing.
- Possible weld metals : silver, yellow and white gold, PT, Titanium.

MODEL	CML - W150
Laser wavelength	1064nm
Maximum Average Power	150W
Max pulse energy	100 J
Depth	0.1 - 3.3 mm
Pulse width	0.3 - 20ms
Frequency	0.5 - 20Hz
Spot Size	0.2 - 2 mm
Power Consumption	≤ 4kw
Power	220V +0% / 50Hz / 30A
Installation Space	Installation Location : 1 square meters
Environment	Clean, Dust free, Ideal with Air Condition
Temperature	13°C to 22°C