

W150G

Brief Description

W150G utilizes a laser source that excites Nd: YAG crystal using a pulsed Xenon lamp that resonates to create a laser with a wavelength of 1064 nm.

With good beam quality, fine laser spot, strong penetration, and fiber transmission, an excellent non-co

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Features:

1. High aspect ratio, thin weld width, narrow heat affected zone, zero deformation, and fast welding speed.
2. The weld is smooth and clean, with or without simple process after welding.
3. High weld strength, no porosity, eliminates the impurities of the base metal, the microstructure can be refined after welding, the weld strength is at least equal to or even exceed the base metal strength.
4. Tiny laser spot can be precisely positioned and easily automated.
5. Fit for some dissimilar metal welding.
6. Spot welding, butt welding, overlap sealing welding.
7. Various metals such as gold, silver, platinum, stainless steel, titanium, and their alloys.

Applications:

This laser spot welder is mainly used for repairing holes of gold and silver jewelry, seams and claw parts. It can be applied to a variety of metals and alloys such as,

- gold
- silver
- platinum
- stainless steel
- titanium

Also can be used to repair dentures and other small parts welding such as,


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- battery nickel tape
- integrated circuit leads,
- clock spring, picture tube, etc.

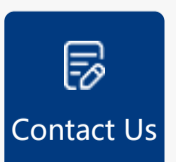
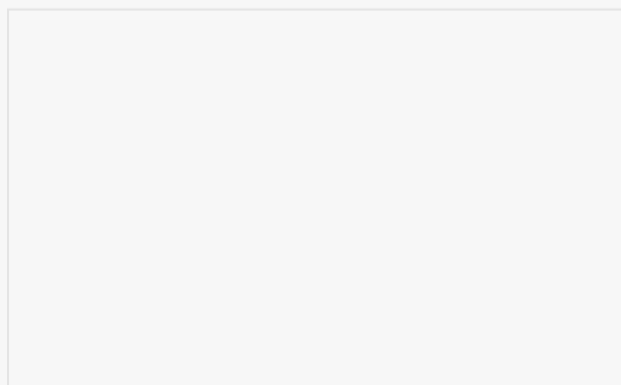
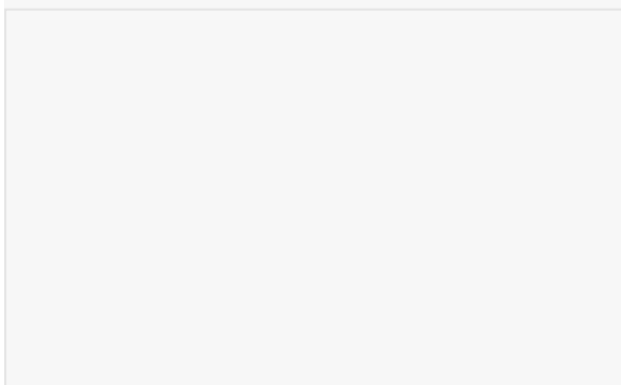
The heat affected zone of the welding process is narrow, and the spot size is adjustable; Smooth and clean result does not require excessive post-weld treatment;

Laser can be accurately positioned to avoid damage to jewelry.

Specification:

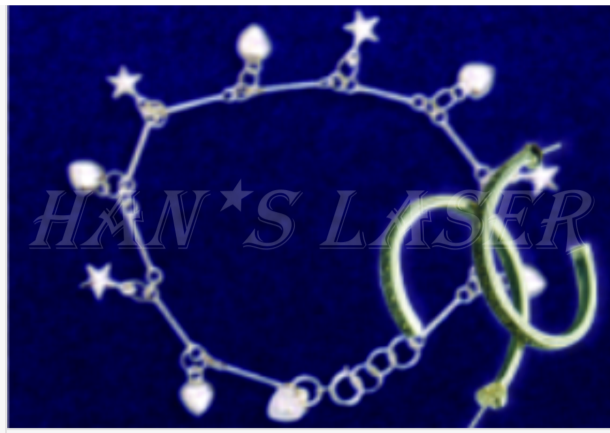
Model	W150G
Laser type	YAG
Laser wavelength	1064nm
Max. laser output power	150W
Max. laser peak power	9 KW
Max. laser pulse energy	80 J
Pulse width	0.1~20ms
Pulse frequency	0.1~20Hz
Spot diameter	0.2~2.0mm
Welding depth	0.05~3mm
Waveform number	60 groups
Aiming positioning mode	Microscope co-axial observing system
Power demand	220V/30A (50/60Hz)
Overall power consumption	6 KW
Cooling mode	Integrated water circulation chiller heat exchange forced air cooling
Weight	200 KG
Main machine dimension	1075x550x1190 (mm)

Sample





Jewelry welding sample



Jewelry welding sample

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