



Nd:YAG  
Impulse  
Xenon Lamp



200W (100j), 300W(150j)

CE ISO 9001: 2015

MADE IN TURKEY

# smt-series Laserator™ WELDY 200/300 Desktop 1064nm YAG Laser Welding Machine

*The heat affected zone is small. The welding spot size can be adjusted. Fast welding speed, high quality, precise positioning. Compact, elegant, user-friendly design. The display uses a 7 inch LED screen, with English, Russian, Spanish version. An optional CCD monitoring system can be installed on the basis of 10X microscope.*

Single Pulse Energy: 100J /150J  
Pulse Width: 0.1-10ns  
Wavelength: 1064nm  
Focal Spot Diameter: 0.1 to 3mm  
Dimensions: 850\*500\*600mm  
Warranty:2 Years Except for Xenon Lamp  
Application: Jewelry Welding Products  
Laser type: Nd:YAG Impulse Xenon Lamp  
Laser wavelength: 1064nm Laser Welding  
Cooling System: Water Cooling  
Pulse Frequency: 1-50Hz Continuous Adjustable  
Max laser power: 200W/300W  
Observing System: Optional CCD Camera



# 200W - 300W



## Parameters

Model No.	WELDY-200 / WELDY-300	
Laser Power	200W	300W
Laser type	Nd:YAG	
Wavelength	1064nm	
Max single pulse energy	100j	150j
Pulse width	0.1~10ms	
Frequency	0~50HZ	
Welding depth	0.1~2mm	0.1~3mm
Spot size adjustment range	0.1~3mm	
Power supply	220V/50Hz	
Cooling system	Water Cooling	
Net weight	90kg	
Machine dimension	850*500*600mm	

## Material/Product Suitability

Jewelry laser welding can be used to fill porosity, re-tip platinum or gold prong settings, repair bezel settings, repair/resize rings and bracelets without removing stones and correct manufacturing defects. Laser welding reconfigure the molecular structure of either similar or dissimilar metals at the point of welding, allowing the two common alloys to become one.

One of the key elements in making laser welding applicable to jewelry manufacturing and repair was the development of the “free-moving” concept. In this approach, the laser generates a stationary infrared light pulse which is targeted through the microscope’s cross-hair. The laser pulse can be controlled in size and intensity. Because the heat generated remains localized, operators can handle or fixture items with their fingers, laser welding small areas with pin-point accuracy without causing any harm to the operator’s fingers or hands. This free-moving concept enables users to eliminate costly fixture devices and increase the range of jewelry assembly and repair applications.

## Applications

Applicable materials: gold, silver, platinum, stainless steel, titanium and other metals and their alloys. The jewelry laser welding can be widely used in gold and silver ornaments, rings, pendants, bracelets, necklaces, holes, spot welding brazing, repair seams and the claw parts of the mosaic parts. And jewelry spot laser welding machine can be applied to artificial teeth and other small precision parts.



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