

**GALAXY-W200 SERIES : JEWELLERY WELDING MACHINE**

**Features:**  
Spot welding is an important and basic aspect of laser welding technology. When laser radiation heats the surface of work-piece, the surface head diffuses to the interior though thermal conduction and melts the work piece by controlling the width, energy, peak power and repeating frequency of laser pulse to form specific molten pool. Because of this unique feature, it is widely used in processing of precious jewelry or welding of precision parts.

- The energy, pulse width, frequency and light spot size can be adjust in a large range to realize different welding effects. The parameters are adjusted by the lever in the seal cavity, which is simple and highly efficient.
- Ceramic converging cavity is imported from the Britain, it is corrosion resistant and high temperature resistant with 8-10 years service life. The life of xenon lamp is more then 8 million times.
- Most advanced light shielding system eliminates the irritation to eyes by laser during working.
- able to work for 24 hours continuously; stable performances; free of maintenance in 10,000 hours.
- Human-based design accords with ergonomics, avoiding fatigue after long time working.
- high speed, high efficiency, deep enough, slightly deformation, small heat effect area, high welding quality, pollution free, environmental friendly.



**Technical Specification**

Model	W200 100	W200 150	W200 200
Rated Power	100W	150W	200W
Laser Source	Nd:YAG		
Laser Wavelength	1064nm		
Laser Energy	40J	60J	80J
Pulse Width	≤20ms		
Pules Frequency	≤50Hz		
Beam Diameter	0.1-3.0mm		
Power Supply	220V±10%/50Hz		
Observing System	Microscopes		
Chamber Illuminations	LED Lamps		
Parameters Memorization	10 Groups		
Protection Alert	Flow Alert		
Language Display	English		
Shield Gas Supply	One Line		
Cooling System	Water Cooling		
Power Consumption	4KW	5KW	6KW
Welding Chamber Dimensions	300mm*450mm*150mm [L*W*H]		
Machine Dimensions	920mm*560mm*1220mm [L*W*H]		
Running Environment	5°C-30°C, 5%-75% Humidity		
Net Weight	130kg[Machine] + 50kg[Chiller]		

Technical Specifications are liable to change without prior notice.



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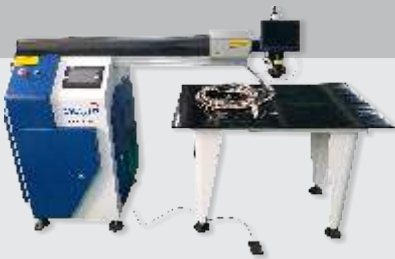
# GALAXY LASER WELDING MACHINE

Galaxy

**GALAXY-WY SERIES : AD SIGNS & LETTER LASER WELDER**



**GALAXY-WY-FT SERIES : DOUBLE OUTPUT LASER WELDING MACHINE (ADDITIONAL FIBER CABLE & GUN)**



**GALAXY-WD SERIES : MULTI AXIS (4 AXIS) AUTO LASER WELDING MACHINE**



**GALAXY-W200 SERIES : JEWELLERY WELDING MACHINE**



GALAXY-WY SERIES : AD SIGNS & LETTER LASER WELDING MACHINE



GALAXY-WY-FT SERIES : DOUBLE OUTPUT LASER WELDING MACHINE (ADDITIONAL FIBER CABLE & GUN)



Features:

This machine used for the welding of LED illuminated billboard, exterior/interior sign, branding, door plate that made of aluminum, S/S, iron, galvanized sheet, titanium, brass, copper, and etc. Laser beam with high energy melts two metal sheets and combine them together without feeding any soldering materials. from any aspect, laser welding is the best solution and the greenest.

- Red light spot fast positioning, CCD display.
- High working speed: 6 times faster then traditional TOG or MIG welding.
- Slight distortion and less heating affect.
- Capable of partial heating process.
- Able to deal with complex, profiled, or tiny letters.
- Low noise and no pollution.
- Ultra fine positioning rod makes corner welding easier without changing position.
- Laser cavity can move in all directions manually in order to weld letters of different size and in different shape.
- Parameter setting in very easy; up to 10 sets of parameters can be memorized for different application.



Technical Specification

Model	WY200 / FT	WY300 / FT	WY400 / FT
Laser Power	200W	300W	400W
Laser Source		Pulses Nd:YAG	
Output Optical Path	Single Path [standard]	Double Path [standard + fiber]	Single Path [standard]
Laser Wavelength		1064nm	
Single Pulse Energy	80J	100J	120J
Working Table Scale		750mm x 1000mm	
XYZ Stroke		X = 700mm, Y = 200mm, Z = 200mm [manual]	
Power Supply		220V±10%/50Hz	380V±10%/50Hz
Power Consumption	6KW	9KW	12KW
Beam Diameter		0.1 ~ 3.0mm	
Pules Width		< 15ms	
Pulse Frequency		1 ~ 50Hz	
Focal Length		150mm / 200mm	
Cooling System		Water Cooling	
Observation System		CCD Camera	
Packaging Dimensions	1160x610x1150mm	1540x950x1150mm	1260x710x1150mm
Gross Weight	319kg	329kg	342kg

Technical Specifications are liable to change without prior notice.

GALAXY-WD SERIES : MULTI AXIS (4 AXIS) AUTO LASER WELDING MACHINE

Features:

Galaxy WD 500 4 Axis laser welding machine with rotary jig and CNC control system is for welding Intersecting line, involute line, curve, point, the entire column and other arbitrary trajectories. It is specialized R&D for precision welding industry with high magnification system and well received by customers.

Application:

Suitable for welding of kettle, vacuum cup, stainless steel bowl, sensor, tungsten wire, high power diode (triode), aluminum alloy, laptop shell, mobile phone battery, door head, zinc alloy artwork.

Capable of welding spot, straight seam, circle, square or any plane graphs drawn by AUTOCAD, or even dimensional graphs.



Technical Specification

Model	WD300	WD400	WD500
Laser Power	300W	400W	500W
Laser Wavelength		1064nm	
Laser Welding Depth		≤4mm	
Pulse Width		≤20ms	
Laser Welding Frequency		≤100Hz	
Adjusting Rang of Light Spot		0.1-3.0mm	
Size of Light Spot		0.2-3.0mm	
Power Consumption	12KW	14KW	16KW
Power Supply		380V / 50/60Hz	
Min. Bearing of Standard Work Bench		≤100Kg	
Stroke of Work Bench		200*200mm ~ 1200*1200mm	
Repeating Precision of Work Bench		±0.01mm	
Positioning Precision of Work Bench		±0.02mm	
Sighting Positioning System		Red light, CCD Monitor System [Optional Rotary Clamp]	
Cooling Method		Water Cooling	
Master Unit Dimensions		1600*800*1800mm	

Technical Specifications are liable to change without prior notice.

