

JET WELD

LASER WELDING MACHINES

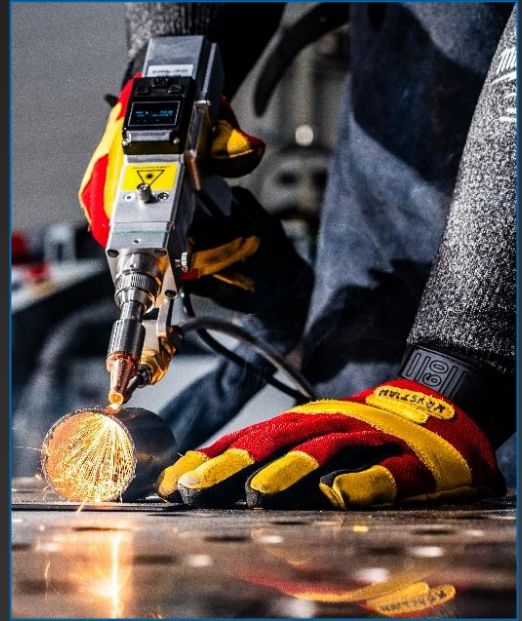


OUR
PARTNERS



laservision
ENGINEERED
LASER PROTECTION

Jet System Welding (JSW) is an industrial 4-in-1 laser welding machine. With this advanced technology, you will achieve excellent weld quality and impressive speed while enjoying ease of use. Regardless of your skill level, the laser welder offers simple operation and exceptional precision. Standardly equipped with a **fully automatic wire feeder**, it eliminates the need for manual intervention. This is the ideal solution for those seeking an efficient welding tool that stands out not only for its performance but also for its practicality and reliability.



Would you like to discover all the features of our welding machines?



PROCESSING CAPABILITIES FOR WELDING

Material	1500W	2000W	3000W
Stainless steel	0,5 - 4mm	0,5 - 6mm	1,5 - 8mm
Carbon steel	0,5 - 4mm	0,5 - 6mm	1,5 - 8mm
Galvanized steel	0,5 - 4mm	0,5 - 6mm	1,5 - 8mm
Aluminium	1 - 3mm	1 - 5mm	2 - 7mm



DEVICE PARAMETERS

Parameter	JSW-1500	JSW-2000	JSW-3000
Laser power	1500W	2000W	3000W
Laser source lifespan	100 000 hours		
Laser wavelength	1064 - 1070nm		
Fiber optic length	10m (15m customizable)		
Operating temperature	0 - 45°C		
Operating humidity %	10 - 90%		
Positioning	Laser pointer (red dot or line)		
Shielding gas	Nitrogen/Argon		
Power supply	1-phase 220V 50/60 HZ	1-phase 220V 50/60 HZ	3-phase 380V 50/60 HZ
Maximum total power consumption	5,5 kW/24 A	7,8 kW/34 A	11 kW / 44 A
Average power consumption	3,2 kW/h	4,4 kW/h	5,8 kW/h
Device Operation Status Indicator	Operation Status Indicator includes: chiller unit, protective glass temperature, and controller temperature.		
Thickness of welded sheets	0,5 - 8mm		
Maximum Gap Width	≤2mm		
Laser Beam Width in Cleaning Function	0 - 70mm		
Cooling Method	Water Cooling		
Control Method	Touch Panel / Monitor and PLC		
Wire feeder	Fully Automated		
Device Weight	190kg	190kg	245kg
Machine Dimensions	Height: 800mm	Height: 800mm	Height: 1080mm
	Width: 540mm	Width: 540mm	Width: 570mm

FUNCTIONS AND ADDITIONS



Welding: The main function of our device is, of course, laser welding. It offers exceptional precision and control, enabling the creation of durable and aesthetically pleasing welds. Regardless of the complexity of the project, our machine will deliver high-quality welds at an express speed.

Spot Welding: The spot welding mode is characterized by high aesthetics and durability of the joint. With a minimal heat-affected zone and shorter processing time, it is the perfect alternative to the riveting process.

Fish Scales Mode: This process is similar to puls welding in the MIG/MAG method and allows for apply even less heat into the base material compared to traditional laser welding mode.



Cleaning: An additional feature is the ability to clean surfaces and welds. This allows us to clean the surface before welding, and the welds are free from contaminants, enhancing their durability and aesthetics. In JSW models, we have access to a cleaning function with a laser beam width of up to **70mm**.

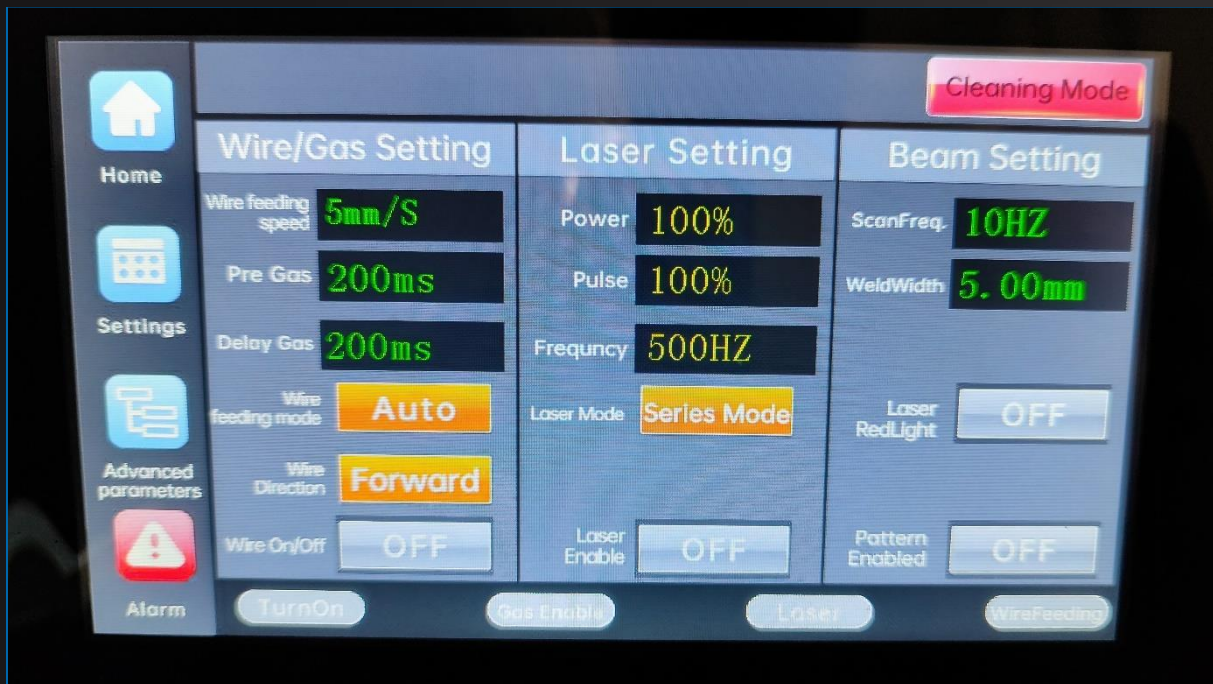
Cutting: Our system also allows for material cutting, but it is important to note that it does not match dedicated CNC machines in terms of precision, efficiency, and versatility. It is more suitable for those who need a versatile device rather than for users expecting perfect cutting results at an industrial level.

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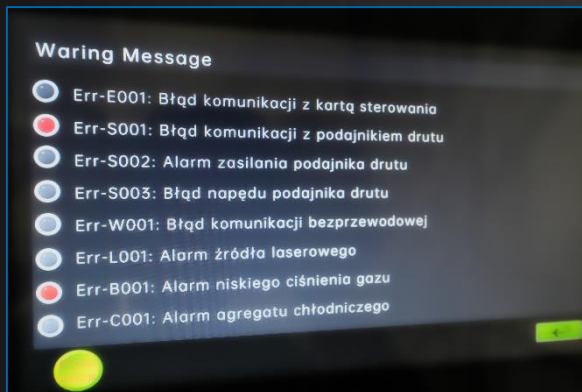


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INTUITIVE MENU IN ENGLISH



MACHINE SELF-DIAGNOSIS



WELDING PARAMETERS



The intuitive menu in English allows for quick and seamless navigation through the machine's interface. The preloaded welding programs enable immediate setup for a specific task – the operator selects the material type and thickness.

Our experience, along with that of our customers, has helped us develop our design, which now includes a range of built-in sensors that prevent machine damage due to user error and facilitate easy problem diagnosis.

You cannot weld without the chiller turned on or without connected gas. The machine will not damage the component when the shielding gas runs out – it will automatically stop the operation.



Additional Remote Control Panel Integrated with the Welding Head

To ensure the comfort and convenience of the operator, our machines are also equipped with an additional control panel located on the top housing of the laser head. This allows for controlling the device's parameters without the need to constantly approach the machine or wire feeder.

