

WS 150- 300



Welding Station



 **sisma**

WS 150 – 300 3 AND 4 AXES CNC WELDING STATION

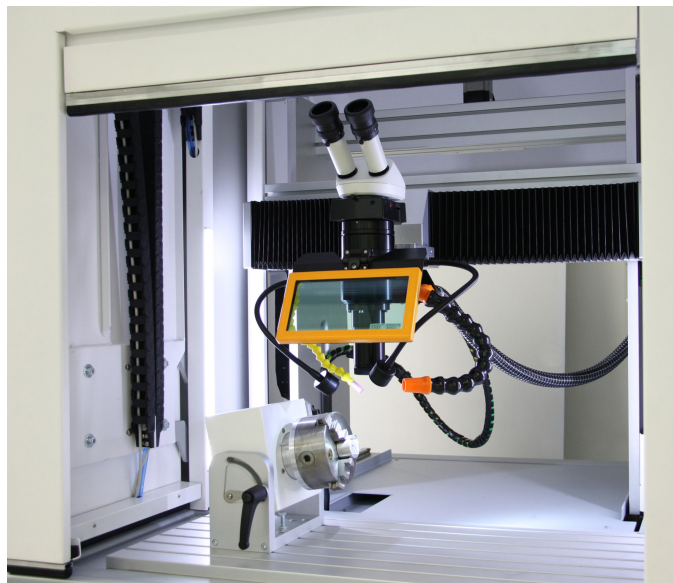
The axis motion system ensures high accuracy thanks to the solidity of the structure and the used materials.

The axis use ball screws are driven by brushless servo motors. The laser source has been designed to guarantee high operating stability at both low and high power. Fiber transport of the laser pulse provides a smaller beam diameter along with high stability of the laser spot, both in the initial transients and at various thermal loads of the laser source.

The fully integrated cooling system is suitable for both small infill operations and extended use.

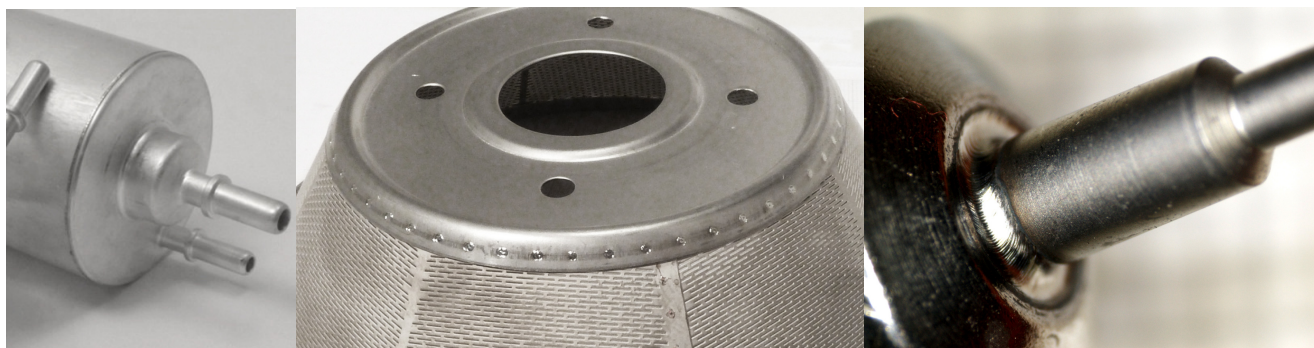
Thanks to the special opening of the front door and focusing head with microscope it is possible to execute welding process manually with joystick or automatically with CNC programming.

Due to a special feature the big tall pieces can be loaded by opening the bottom door. The front door is equipped with pneumatic opening and sensitive edge that guarantees the maximum safety for the operator during the closing phase.



TECHNICAL DATA	WS 150 - 300	LASER SOURCES	SL 150	SL 300
X axis	540 mm	Laser type	Nd: YAG (flash lamp)	
Y axis	400 mm	Wavelength	1064 nm	
Z axis	400 mm	Average laser power (max)	150 W	300 W
Max. speed	20 mm/s	Peak laser power (max)	10,5 KW	12 KW
Axis precision	+/- 50 µm	Laser pulse energy (max)	75 J	150 J
Repeat accuracy	+/- 25 µm	Laser pulse duration	0.3 - 25 ms	
HMI	PC + screen 21"	Shot frequency	0 - 100 Hz	0 - 200 Hz
Ambient temperature	15°C – 35°C	Spot diameter	0.5 - 2 mm	
Compressed air	6 Bar	Ambient temperature	15°C – 35°C	
Power supply	230V 50/60Hz 1ph 1 KW	Power supply	400V 50/60Hz 3ph 3,5 KW	400V 50/60Hz 3ph 8 KW
Weight	450 Kg	Weight	120 Kg	210 Kg
Dimensions	120 x 135 x 175h cm	Dimensions	72 x 52 x 90h cm	90 x 63 x 109h cm

The features, images, performance, weights and measures contained in the catalogues are completely indicative and approximate and may change without notice.
Le caratteristiche, le immagini, le prestazioni, i pesi e le misure indicate nei cataloghi si intendono del tutto indicativi ed approssimativi e possono variare senza preavviso.



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