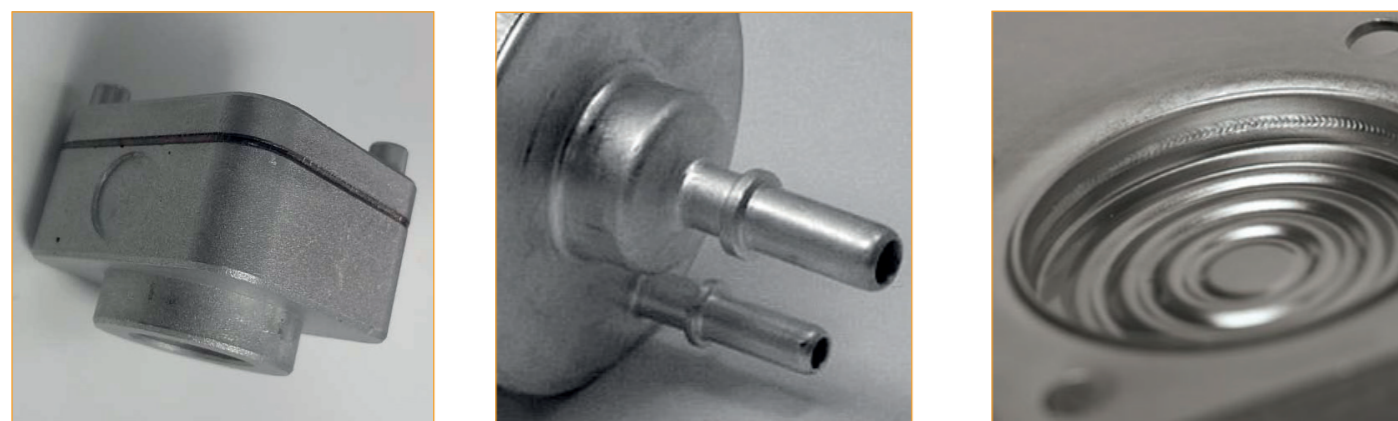


## APPLICATIONS



### Technical data

Available welding sources	Fiber 2000 CW
Axes stroke / Working plane area	Max. 600 x 470 x 235 h mm (Size M)
Positioning repeatability	Up to 10 µm
Available control panels	Standard / Plus / Touch
Air supply	Dual, independent and adjustable by program
Process gas	Self-adjusting
Max. dimensions (L x P x A)	Size S: 980 x 1980 x h 2060 mm / Size M: 1300 x 1980 x h 2060 mm
Weight	Size S: 1100 kg / Size M: 1300 Kg

Features, pictures, performance, weights and measurements shown are intended to be entirely indicative and approximate and may change without notice.

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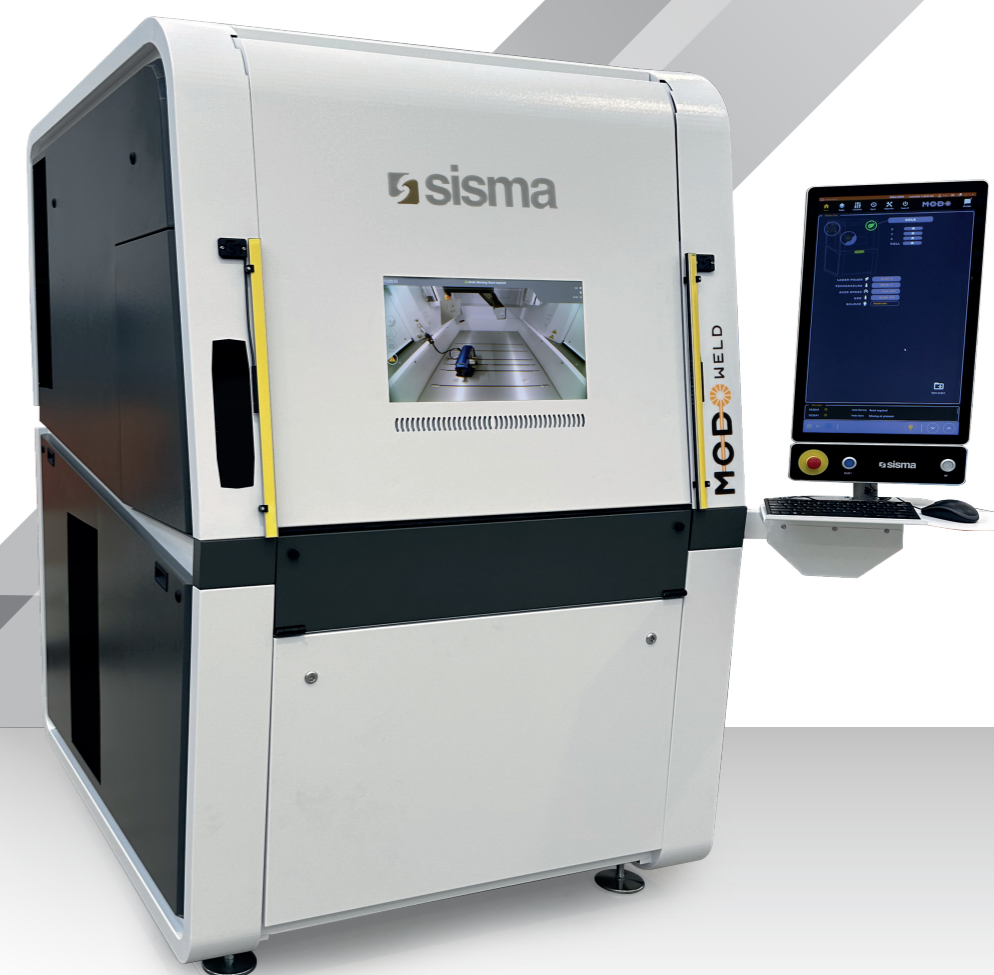
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Laser Welding

INDUSTRY

laserlines 



# MODO Weld Torch

Torch laser welding system



## AXES REPEATABILITY

High precision and repeatability down to 10 µm ensure repetitive positioning related to multiple jigs on the work surface. Each machine is accompanied by the ISO 230-2:2014 certificate.

## VARIABLE LASER SPOT SIZE

Laser spot diameter can vary within a single working cycle from 100 µm to 1000 µm with 200 mm focal length.

## VIRTUAL WINDOW

SISMA's patented protection system that allows, thanks to a virtual window, a view of the work area in total safety.

## WORKING CHAMBER AUTOMATIONS

Electrical and pneumatic supplies programmable by the operator within the welding program are available in the working chamber. It is also possible to use spindles with up to two axes.

## SENSITIVE PROTECTIONS

If the laser beam accidentally hits the work surface or other neighboring surfaces, the system would stop the emission, avoiding danger to the operator.

## WORKING AREA

Workable area: 600 x 470 mm;  
Max. height from the working plane: 435 mm.

## OPENING FOR EQUIPMENT LOADING

The lowered top with front opening was created to facilitate the loading of fixtures and to increase the available space in the workroom.

## SISMA LASER CORE

### 2000 W CW – Smart Pulse 1÷5 kHz – Laser safety PLd – BPP <1,5

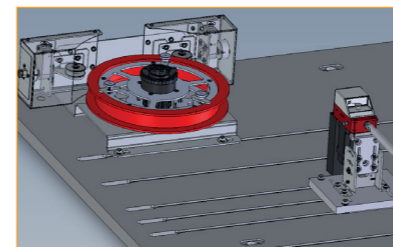
SISMA CW fibered laser source CW is rated at 2000 W continuously settable power with customizable power ramp management. The integrated SISMA control enables Smart-Pulse functionality that allows pulsed mode operation up to a frequency of 5 kHz. The high-quality welding torch is equipped with integrated air blade and removable protective glass and it is protected from thermal focal effects due to the quality of the optics and water cooling system.

## ACCESSORIES



### Proportional regulation of support gas

Gas regulation with flow feedback allows machining to be carried out in a repeatable way, ensuring the correct supply of process gas at all times. Within the work cycle, its supply can be varied to optimize consumption and achieve the best possible result.



### Wire feeder

Device to control and adjust the tension, speed and wire path during the welding process. Accepts threads from 0.2 up to 2 mm. It's possible to hook the wire supply to the laser torch.



### Sisma pendant device

Device to remotely control axes even when the door is open. The joystick allows movement of up to 3 axes simultaneously. The touch panel allows selection of the axes to be moved and their speed, as well as access to other control functions of devices and automatisms in the working chamber.

## SOFTWARE

### MOD0 G-CODE

It is possible to import external G-codes or create them on the machine and track progress via dedicated HMI.

### Online teaching

Create G-codes directly using the Sisma Pendant Device.



### MOD0Console

Simple and intuitive man-machine interface that, integrated in the vertical touch monitor, allows the full potential of the machine to be exploited. The thematic tabbed management allows the control of the process status with steps shown in sequential order.



### MOD0Inspector

MOD0Inspector is a diagnostic system that makes it easy to monitor and resolve any anomalies present in the machine, as well as to quickly set up setups dedicated to the specific process (e.g., vary axis dynamics, or gas management) without the need to update the software.