

# Laser Marking Station XXL-BOX



The mark of quality



SECURE

LARGE PARTS

MODULAR



# XXL-BOX Laser Station

The laser marking solution that thinks big

The XXL-BOX is a safe, modular laser marking station. Available in three widths: 800, 1200 or 1600 mm, it is ideal for marking parts trays or large components. Equipped with a fiber laser source ranging from 20W to 100W, it meets a wide range of applications, including the most demanding in terms of marking depth and contrast.

Robust and reliable, **it's the ideal solution for use in industrial environments.**

1234 5678 90



Automatic door

Welded door and frame

Remote control

FU4 controller

Suspended multi-axis system

Marking head

Clear marking area





## Maximum useful volume

- Modular width for greater flexibility  
Three formats available: 800, 1200 or 1600 mm wide, to suit all your parts
- The biggest work volume on the market  
Up to 400 mm in height and 820 mm in depth, enabling you to process even the largest parts
- Optimized marking zone. Thanks to its suspended marking head, the XXL-Box makes full use of its working volume, without cluttering up the marking area



## Safe & Robust

- Class 1 safety station compliant with EN 60825-1 standard, ensuring total safety
- Strong welded frame designed for demanding industrial environments
- Designed and manufactured in France



## Designed to meet your needs

- Maximum flexibility for marking large parts or trays of parts, guaranteeing uncompromising productivity
- Axis configurations for customized solutions:
  - **Manual axis:** for quick and easy installation
  - **Motorized axis:** for easy handling and reduced costs
  - **Controlled axis:** for complete automation



## Our different laser sources

### Standard pulsed fiber laser

Mainly used for marking metals and certain plastics

#### 20 W Standard Fiber

- **Cost-effective solution:** perfect for standard applications
- **Versatility:** suitable for marking metals and plastics

#### 30 W Standard Fiber

- **Ideal balance between performance and budget:** higher speed than 20W
- **Versatility:** suitable for marking metals and plastics

#### 50 W Standard Fiber

- **Increased power:** ideal for deep, long-lasting engravings
- **Accelerated cycles:** significant reduction in time per part

### HD MOPA fiber laser

Allows adjustment of pulse duration for more precise laser control

#### 20 W HD MOPA

- **Compatibility with plastics:** adapts to the main polymers
- **Controlled thermal effect:** improved contrast on aluminum

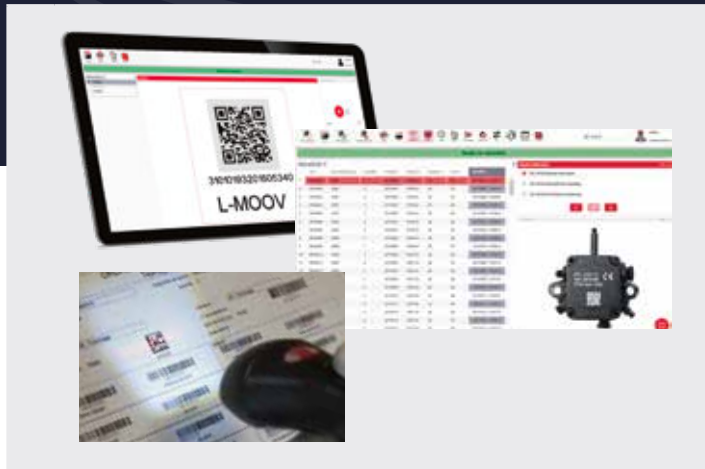
#### 60 W HD MOPA

- **Fast, precise marking:** higher speed than MOPA 20W
- **Accelerated cycles:** significant reduction in time per part

#### 100 W HD MOPA

- **Deep engraving:** durable marking in minimum time
- **Intensive industrial applications:** high-speed marking

## Our different modes of use



### Operator mode

- Ergonomic user interface and simplified mode for easy, intuitive operation
- Customizable production cycles for maximum flexibility



### Robot mode

- Optimum compatibility thanks to 4 standard communication buses (Profibus, Profinet, Ethernet-IP and OPC UA)
- This mode enables **integrators** to avoid development costs by relying on a standardized, secure housing



### Modular FU4 controller: adapt to your automated line

- Compatible with standard communication buses (Profibus, Profinet, Ethernet-IP and OPC UA)
- Optional I/O card for controlling various accessories, such as additional position sensors, smoke extractors, 2D code readers, etc., via the same protocol
- Integrated touch screen with advanced diagnostic functions



# Options and accessories

To meet your specific needs

## > Fumes extractors



## > Arm-mounted HMI



## > Rotary axis for heavy parts



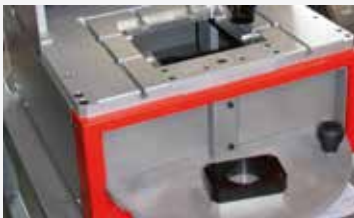
For marking cylindrical parts of various dimensions

## > Toolings



Development of custom brackets and fixtures

## > Turntable



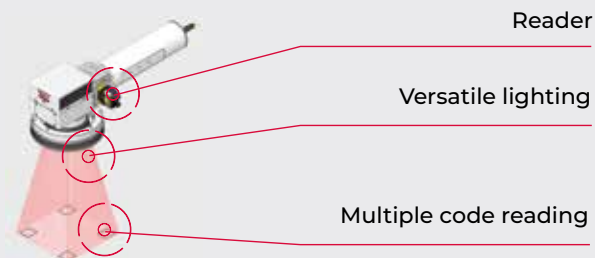
Automatic or manual

## > Drawer



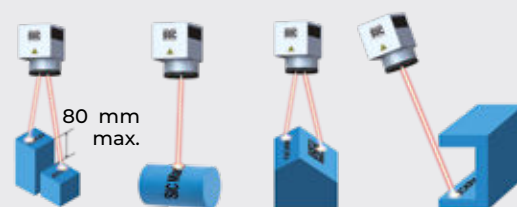
Automatic or manual, considerably facilitating the handling of your parts while reducing machine cycle times

## > Smart Vision



Integrated reading system for reading and evaluating 2D codes (QR Code, Datamatrix) across the entire marking area

## > 3D Marking

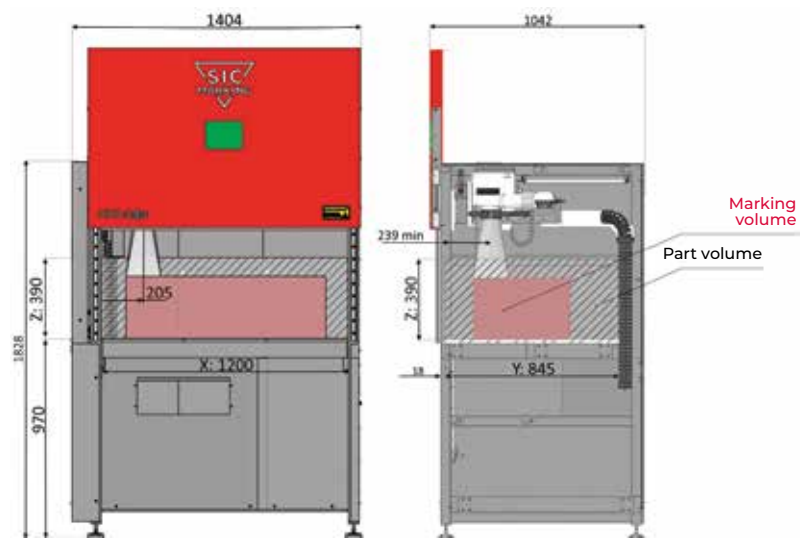


For marking different geometries without moving the part

# Technical specifications

## Application examples

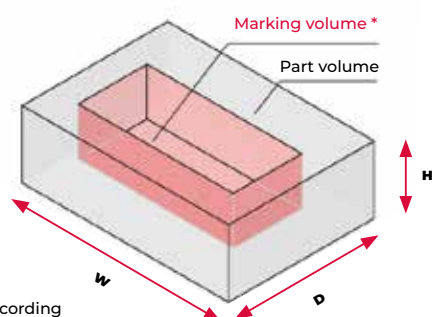
### Technical data:



Example shown: XXL-BOX 1200 with X,Y & Z motorized axis configuration.

Power supply	100-240V AC
Technology	Fiber laser
Power	20 W to 100 W
Marking fields	60 x 60 / 100 x 100 / 170 x 170 220 x 220 / 300 x 300 mm
Maximum part height	400 mm with F160
Control system safety	PL-E (Norme ISO 13849-1)
Laser safety (EN 60825-1)	Classe 1
Max. machine weight	350 Kg

Model	Dimensions (WxDxH)	Useful volume (WxDxH)
XXLBOX 800	1020 x 1040 x 1850 mm	800 x 845 x 390 mm
XXLBOX 1200	1220 x 1040 x 1850 mm	1200 x 845 x 390 mm
XXLBOX 1600	1620 x 1040 x 1850 mm	1600 x 845 x 390 mm



\*Marking volume to be checked according to configuration and application.



# The 8 key SIC MARKING services



## Personalized advice for the best choice of technology

Laser, micro-percussion or scribing? Our experts will help you identify the marking technology best suited for your requirements, thanks to our wide range of solutions.



## Customized solutions tailored to your needs

We develop customized products that are perfectly adapted to your industrial processes and requirements.



## Feasibility studies and technical tests

We carry out rigorous feasibility studies and tests to validate each stage of your project. Engineering tests are also available.



## Complete training for your teams

Our specialists train your teams in the use of your equipment to ensure autonomous and effective control.



## Assistance during commissioning

Our local teams are on hand to support you during the commissioning of your machine, facilitating smooth and rapid integration into your day-to-day operations.



## Technical support and after-sales service

Responsive after-sales service and dedicated technical support members are at your side for assistance for the supply of spare parts and consumables.



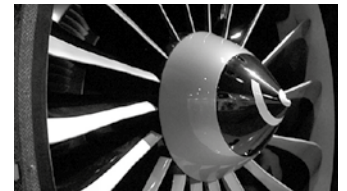
## Retrofit solutions for sustainable performance

We offer customized retrofit solutions to extend the life of your machines: backward compatibility with updated components, complete modernization or equipment takeover.



## Global support with local expertise

With 10 subsidiaries and a worldwide network of distributors, we offer global resources combined with local support to take charge of your projects from design to installation.



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