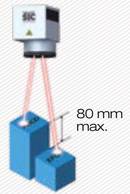
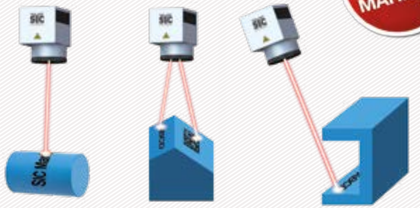
3D MARKING FUNCTION

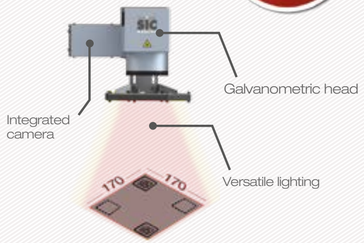


Marking of one or several parts on different height levels.



Marking on cylinders (without turning the part), inclined planes and difficult to access parts.

INTEGRATED VISION SYSTEM





Reading & grading of several 2D codes (QR-Code, Datamatrix) in a large marking window (170 x 170). Reading possible in the entire marking window.

OPTIONS



Protective sleeve



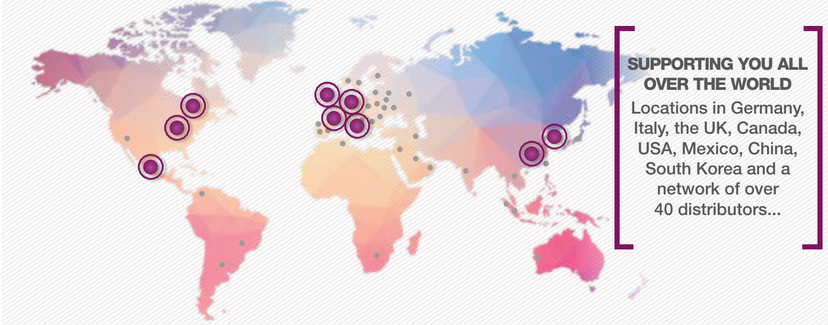
Motorized Z axis



Extraction and filtration systems



Custom protective box



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SIC MARKING, A GLOBAL SPECIALIST IN MARKING AND TRACEABILITY SOLUTIONS.

SIC Marking is an international group developing permanent marking solutions and vision systems for the traceability of industrial components. SIC Marking has developed a complete range of dot peen, scribing and laser marking machines.

With 30 years of experience, SIC Marking develops traceability applications for a wide range of materials such as steel, alloys, stainless steel, titanium, aluminum and plastics.
Today we work with professionals in various industries such as: automotive, aerospace, metallurgy, mechanical engineering, plastics processing, railway, medical, construction, defense...

With an experienced, responsive and involved team, SIC Marking offers a complete range of standard products, and custom machines to meet all your needs.

SIC Marking is ISO 9001: 2015 certified.

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LASER

INTEGRATED RANGE i104

Catalog



SIC MARKING
The mark of quality

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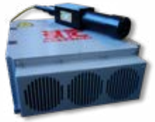





LASER TECHNOLOGY: FAST AND HIGH QUALITY MARKING ON ALL MATERIAL!

To meet the ISO quality requirements, traceability is essential. This is the reason why laser marking is used by manufacturers to automate marking operations and thus guarantee 100% control of their processes.

This laser marking technology consists of releasing radiation from a source. It is then amplified through an optical fiber and directed through a galvo head toward the part to be marked. The beam focused on the material by the lens creates a marking chemical reaction.



SIC Marking's fiber laser doped with Ytterbium is a latest generation technology. It is high performant, enduring, easy to implement and without maintenance cost. This technology is mainly used for direct marking on all types of materials, from plastic to metal parts, irrespective of their hardness or surface finish. The laser makes it possible to carry out quality marking in a reduced cycle time.

OUR INTEGRATED LASER SYSTEMS

Our integrated laser systems have been engineered for intensive use in any industrial working environment. They can be integrated into production lines or used as a stand-alone marking station. They are suited for both low and high rates of production, and can be fully customized with additional features and tools. Manufacturing dedicated tooling systems or adding extra axes (e.g. Z and rotary) can be made on request.



+ GREAT VALUE FOR MONEY
- SIC Marking fiber laser
- Proven technology
- Multi applications (metals, plastics...)

+ VERSATILITY
- Marking on all types of materials and difficult surface conditions
- Surface or hollow marking
- 1D or 2D codes (Data Matrix) marking
- Images or vector logos marking
- Decorative marking

+ EASE OF USE AND INTEGRATION
- Small size
- Built-in communication cards and memory
- No PC required to operate on the line
- Adjustable pulse duration per object (for HD configuration)

+ ROBUSTNESS AND RELIABILITY
- Long-life components (≥ 100 000 h)
- Suitable for intensive use in industrial environments
- Reduced maintenance
- 2 years warranty

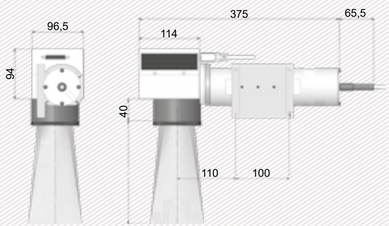
A RANGE OF MODULAR MARKING LASERS

100% MODULAR RANGE

- Available configurations:

Easy 20-30W	Easy 50W	HD 20W
Excellent value for money Marking on all types of materials and difficult surface conditions	Deep marking Ultra fast marking	Multi material (ideal for aluminums and plastics...) Reduced cycle time
VERSATILITY	HIGH POWER	HIGH CONTRAST

- Mechanical features:



	i104
Marking window	☐ 60 mm ☐ 100 mm ☐ 170 mm ☐ 220 mm ☐ 300 mm* (*consult us)
Weight	5kg
Consumption	750W
Security	Class 4 Laser (EN60825-1 standard) to secure
Software	SIC Laser software
Pulse duration *(for HD configuration)*	from 2 ns to 200 ns

CUSTOM-MADE INTEGRATIONS

An engineering design office is available for the integration of your custom-built machines.



I104 laser with protective case for manual marking of metal sheets.

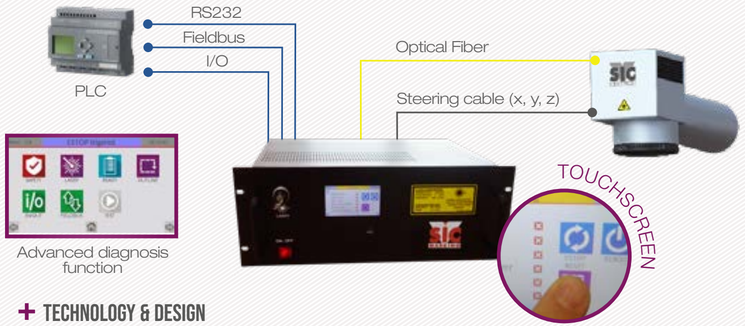


Laser station equipped with a loading drawer and dedicated vision system.



Protective sleeve for laser.

THE FIBER UNIT



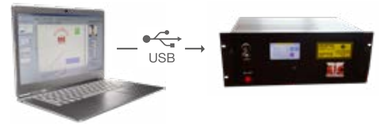
+ TECHNOLOGY & DESIGN
- Operating method: pulsed (variable frequency)
- Consumption: 750 W
- Wavelength: 1 064 nm
- Digital axis control (linear and rotary)
- Ultra Compact: 4U height (177mm)

+ COMMUNICATION CARDS (optional)
EtherNet/IP · PROFINET · PROFIBUS

+ RELIABILITY AND PERFORMANCE
- Long-life components (≥ 100 000 h)
- Self diagnostic function
- Cooling: by air only
- Warranty: 2 years (5 years optional)

+ OPERATING
- Laser driven by «SIC LASER» software
- USB interface, Windows environment
- User-friendly interface with icons navigation

- Programming mode:



- Creation of entities to be marked: characters, logos,1D or 2D
- Font choice «True Type»
- Pen setups

- Production mode:

