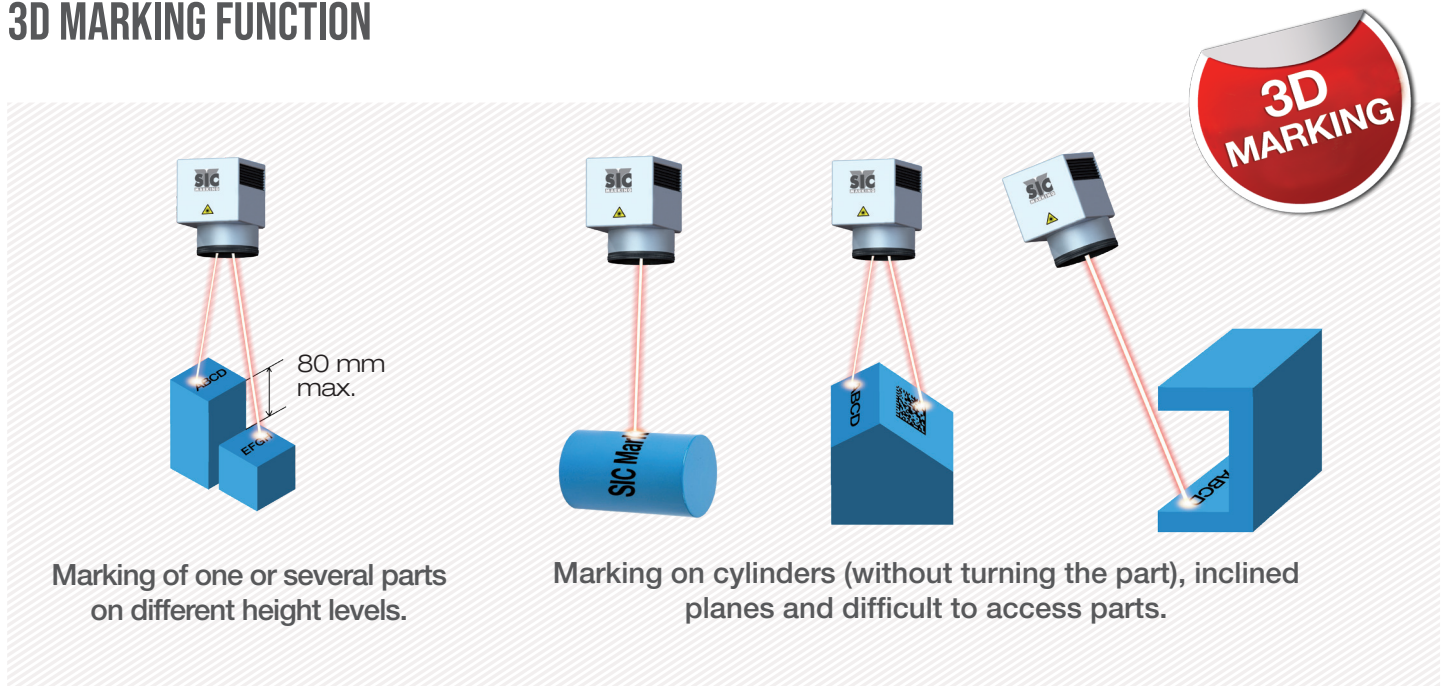
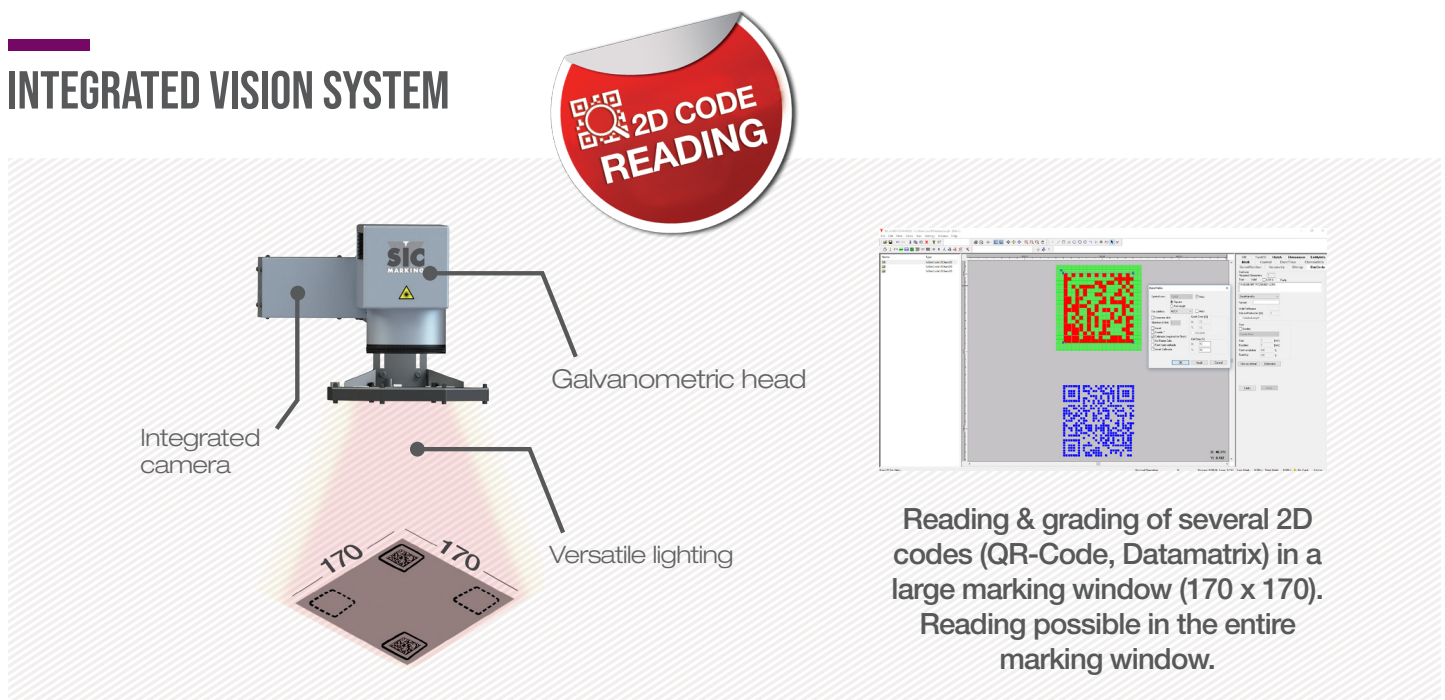


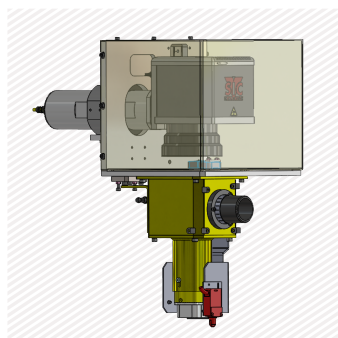
3D MARKING FUNCTION



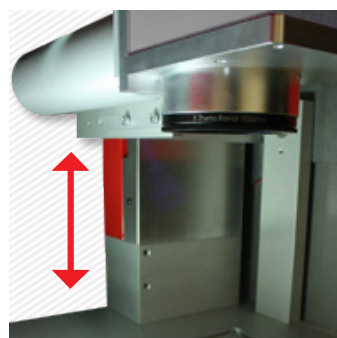
INTEGRATED VISION SYSTEM



OPTIONS



Protective sleeve



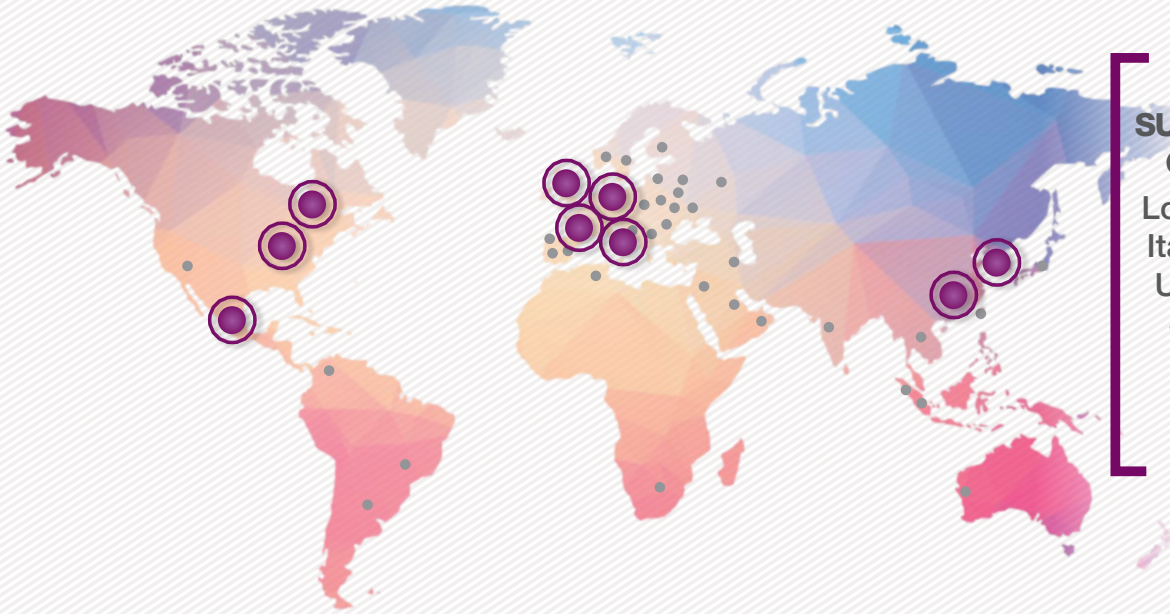
Motorized Z axis



Extraction and filtration systems



Custom protective box systems



**SUPPORTING YOU ALL
OVER THE WORLD**

Locations in Germany,
Italy, the UK, Canada,
USA, Mexico, China,
South Korea and a
network of over
40 distributors...

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.

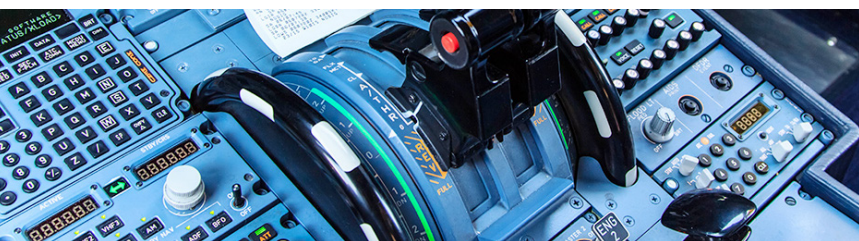
With 30 years of experience, SIC Marking develops traceability applications for a wide range of materials such as steel, alloys, stainless steel, titanium, aluminum and plastics.

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.



SIC MARKING
195 Rue des Vergers
69480 Pommiers - France
Tel : +33 472 54 80 00
info@sic-marking.com

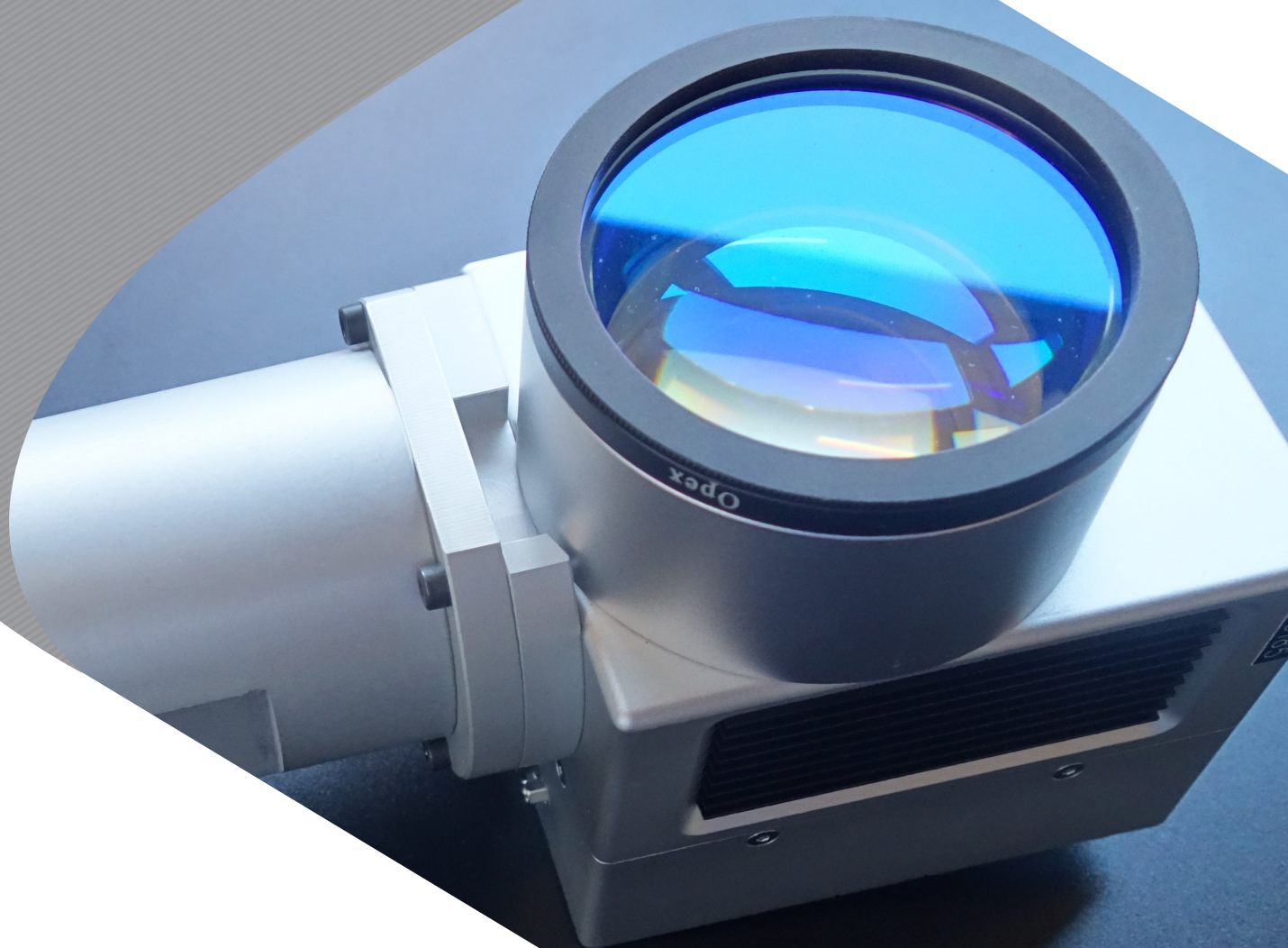




LASER

INTEGRATED RANGE i104

Catalog



Mark today, identify tomorrow

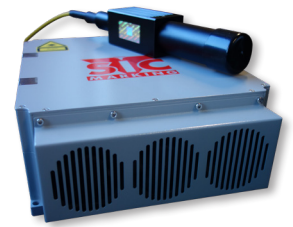


LASER TECHNOLOGY: FAST AND HIGH QUALITY MARKING ON ALL MATERIAL!

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.



+ 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*)

+ 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

+ ROBUSTNESS AND RELIABILITY

- Long-life components ($\geq 100\ 000$ 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

Excellent value for money
Marking on all types of materials and difficult surface conditions

Easy 50W

Deep marking
Ultra fast marking

HD 20W

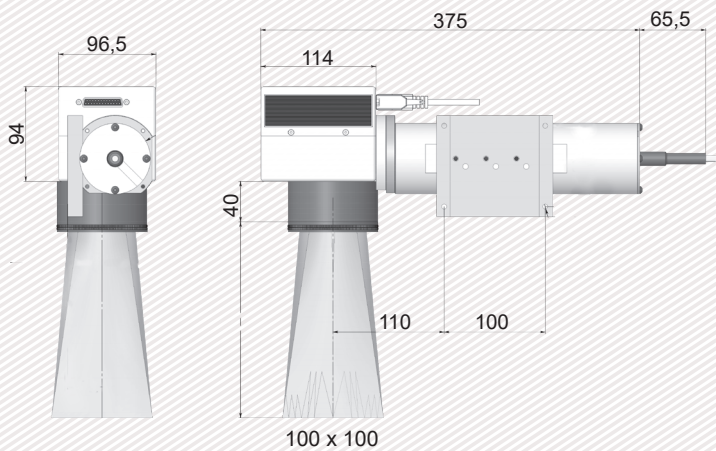
Multi material (ideal for aluminums and plastics...)
Reduced cycle time

 **VERSATILITY**

 **HIGH POWER**

 **HIGH CONTRAST**

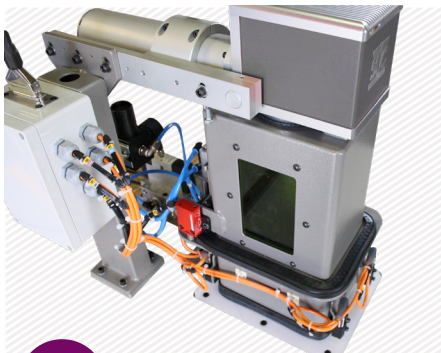
• Mechanical features:



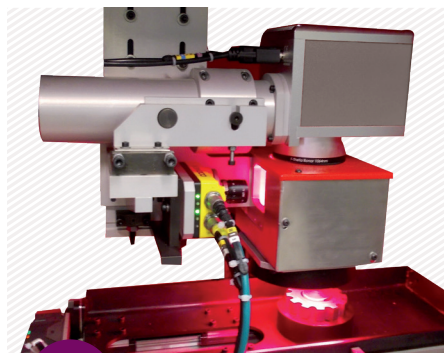
i104	
Marking window	<input type="checkbox"/> 60*mm <input type="checkbox"/> 100 mm <input type="checkbox"/> 170 mm <input type="checkbox"/> 220*mm <input type="checkbox"/> 300*mm (*contact us)
Weight	5kg
Consumption	750W
Security	Class 4 Laser (EN60825-1 standard) to secure
Software	SIC Laser software
Pulse duration (for HD configuration)	from 2 ns to 200 ns

CUSTOM-MADE INTEGRATIONS

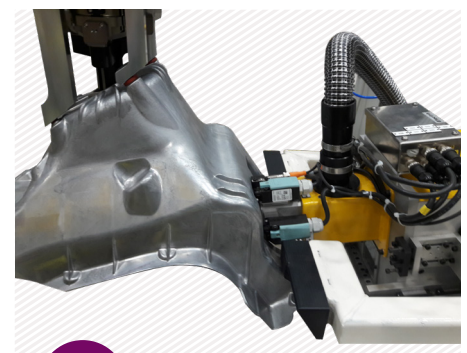
An engineering design office is available for the integration of your custom-built machines.



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

RS232
Fieldbus
I/O

PLC

Optical Fiber
Steering cable (x, y, z)

Advanced diagnosis function

TOUCHSCREEN

+ 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

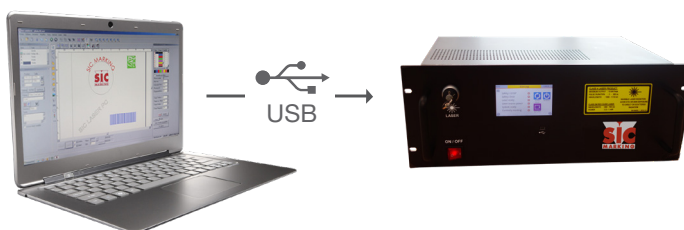
+ RELIABILITY AND PERFORMANCE

- Long-life components ($\geq 100\ 000$ h)
- Self diagnostic function
- Cooling: by air only
- Warranty: 2 years (5 years optional)

+ OPERATING

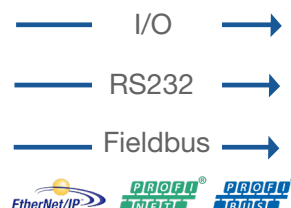
- Laser driven by «SIC LASER» software
- USB interface, Windows environment
- User-friendly interface with icons navigation

• Programming mode:



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

• Production mode:



PLC