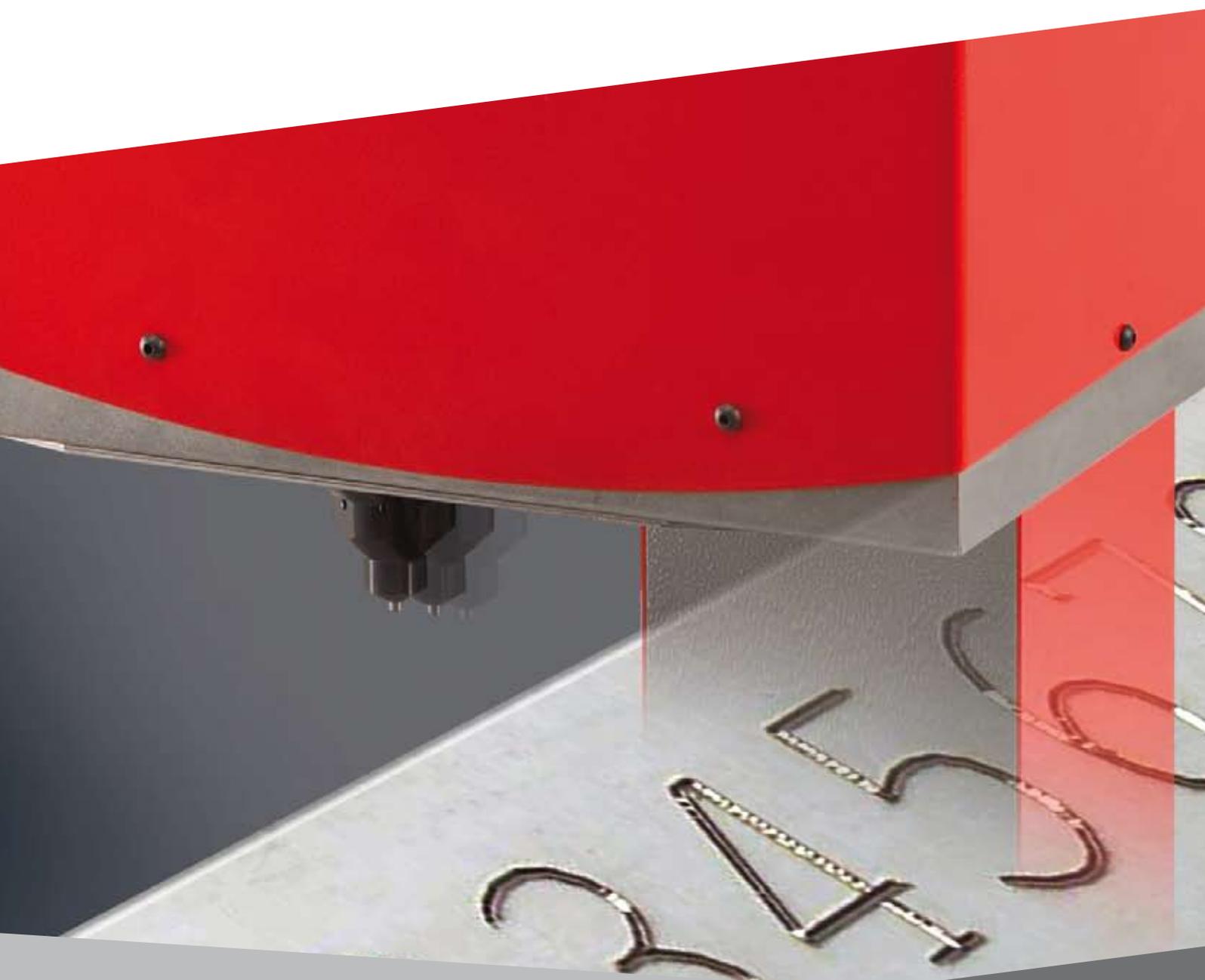# INTEGRATED SYSTEMS

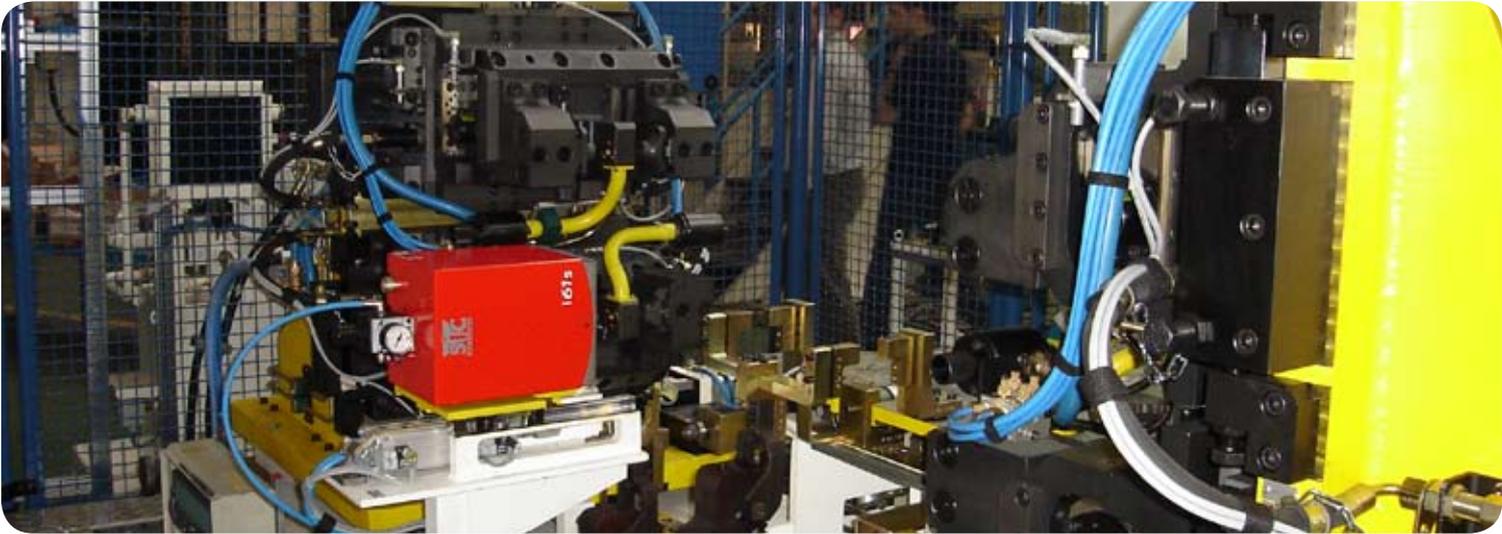**Scribing marking heads**

e10 RANGE

e10-i61s
e10-i113s

SIC MARKING

SCRIBING TECHNOLOGY : QUICK, SILENT AND ACCURATE MARKING !

The mark of a text or a logo is done directly on the material, even on hardened steel, by a carbide or diamond stylus that penetrates and indents the surface. These scribers produce deep grooves to form continuous lines thanks to the continuous pressure of the compressed air.

Scribing technology is selected mostly for applications when noise level limitations are imposed. For example, marking on large hollow tubes with a dot peen machine would create noisy results, whereas a pneumatic scribing machine would mark more silently. This technology is also known for guaranteeing a permanent and aesthetic mark, ideal for requirements of optical character recognition (OCR) vision systems.

Scribing technology is also called «drop and drag» technology, and other times «scratch marking».

INTEGRATED SCRIBING HEADS

These integrated marking machines are designed to operate in the center of production lines at high rates and in harsh environments. User-friendly, easy to integrate, and high performance are the main requirements of industries who select SIC Marking for its key products in the marking field. They can also be customized for specific requirements, including camera systems, softwares, ...

HIGHLIGHTS ....

■ **Robust and reliable**

• Designed for intensive use in industrial sectors
• Fully enclosed system
• Metal protective bellows

■ **Simple and user-friendly**

• Straightforward integration
• Extremely quiet
• Removable robotic cable
• Simple programming
• Quick pneumatic plugging

■ **Wide range of options**

■ **High performances**

• High marking quality (carbide or diamond tip)
• Deep marking
• High speed
• Powerful integrated software

■ **Low cost of ownership**
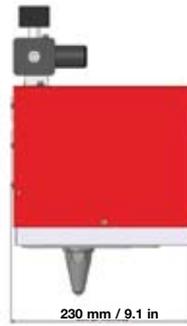
• No consumables
• Reduced maintenance

i61s

400 mm / 15.7 in

178 mm / 7 in

165 mm / 6.5 in

- **EASY TO INTEGRATE**
- Ideal for light scribing
- Compact
- Silent
- Marking window
  60x30 mm / 2.4x1.7 inches

i113s

365 mm / 14.4 in

300 mm / 11.8 in

230 mm / 9.1 in

■ ADVANTAGES OF THE i113s............

- **IDEAL FOR DEEP MARKING**
- Robust mechanic for deep marking up to 0.5 mm on stainless steel
- Silent
- Wide marking window
  110x60 mm / 4.3x2.4 inches

MECHANICAL TECHNICAL FEATURES

	i61s	i113s
Marking window	60 x 30 mm/ 2.4 x 1.7 inches	110 x 60 mm / 4.3 x 2.4 inches
Weight	11.8 kg / 26 lbs	17.5 kg / 38.56 lbs
Robotic cable	5 m/ 16.4 ft (optional length 10 m/ 32.8 ft and 15 m/ 49.2 ft)	
Stylus	Carbide or diamond	
Air supply	6 bars	

Standard Characteristics

- Color screen
- USB port - Easy transfer of marking files
- Connectivity - Current standards communication
- Fully programmable
- Sand-alone operation (no PC required)
- Cutting-edge microprocessor: quick start and smooth browsing
- Marking history and self-diagnosis functions (maintenance help, configuration and statistics)
- Markings variety (DataMatrix, angular, circular, alphanumeric, logos, etc.)
- Industrial membrane keyboard
- Fully enclosed controller IP40 (no opening, no fans)
- 100% compatible with previous machine range

e10 R specific features

- Reduced size (can be easily integrated)
- 2 possible configurations: connectors can point upwards or downwards
- Adapted for vertical mounting in electrical cabinet
- Kit for mounting on DIN rails (optional)

e10

e10 R

Ideal for the integrated range

■ **Color screen**

■ **USB connection on the front panel:** import/Export marking files - Keyborad external plug

■ **Full connectivity:** compatible with different communication protocols

ELECTRONIC TECHNICAL FEATURES

	e10	e10 R
Dimensions (d x l x h)	322 x 380 x 112 mm / 12.7 x 15 x 4.4 in	112 x 380 x 222 mm / 4.4 x 15 x 8.7 in or 140 x 380 x 222 mm / 5.5 x 15 x 8.7 in with Rail DIN Kit (option)
Weight	5 kg / 11 lbs	
LCD screen resolution	480 x 272 pixels	
Keyboard	Qwerty integrated, membrane overlay	
Power	300 Watt	
Power supply	Single phase, 85 to 260 VAC, 50 to 60 Hz	
Number of controlled axis	2 (3rd and 4th axis optional)	
Operating temperaure	From 5 to 40°C / 40 to 105°F	

SOFTWARE

Memory	7110 Kb
Text	Incrementation, date codes
Logos	Download from PC/USB key
Data Matrix	Up to 348 characters, 48 x 48 dots
Fonts	4x6, Arial, Comic, Comic_B, Courier, OCR, OCR_BOLD, OCRA
Style	Angular, radial, inverse, mirror
Character size	From 0.1 mm to 99 mm (restricted by marking window size)
Impact force	9 adjustable levels
Depth	Up to 0.5 mm (depending on material marked)
Resolution between dots	0.05 mm / 0.002 in
Work shift management	10 shifts/24h
Password	3 security levels
Historical function	Exportable Excel file
Maintenance assistance	Self-diagnosis
Software	17 languages

COMMUNICATION

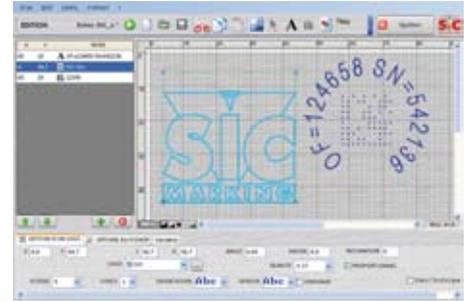|	
Ports	RS232, RS422, USB (RS485 Profibus and TCP/IP Ethernet in option)
Inputs/Outputs	8/8
External keyboard input	USB
External output	5V – 0.5A and 48V – 3A
Soft on PC	Marking files creation, controller/PC or USB key transfer, historical function

MACHINES

Column base
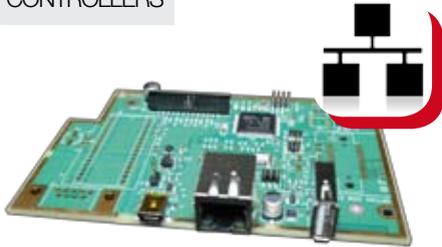

Maintenance kit

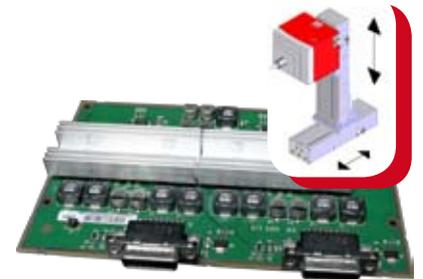**PC-based software**

Stylus and guides

Rotary axis

CONTROLLERS

Ethernet card

Kit for mounting on DIN rail

Card for controlling 3rd and 4th axis

APPLICATIONS

VIN marking

Tag feeder

Mark today
Identify tomorrow

SIC MARKING, THE MARKING SOLUTIONS LEADER

SIC Marking is an international company dedicated to the development of permanent marking solutions & automated identification for complete traceability of industrial components.

SIC Marking has developed a full range of exclusive marking machines - dot-peen, scribing & laser technologies - and services.

SIC MARKING, A WORLDWIDE NETWORK
40 DISTRIBUTORS AND 5 SUBSIDIARIES

SIC Marking
13, route de Limonest
ZAC de la Braille
69380 LISSIEU - FRANCE
Tel : +33 (0) 4 72 54 80 00
Fax : +33 (0) 4 78 47 39 40
info@sic-marking.com
www.sic-marking.com

www.sic-marking.com