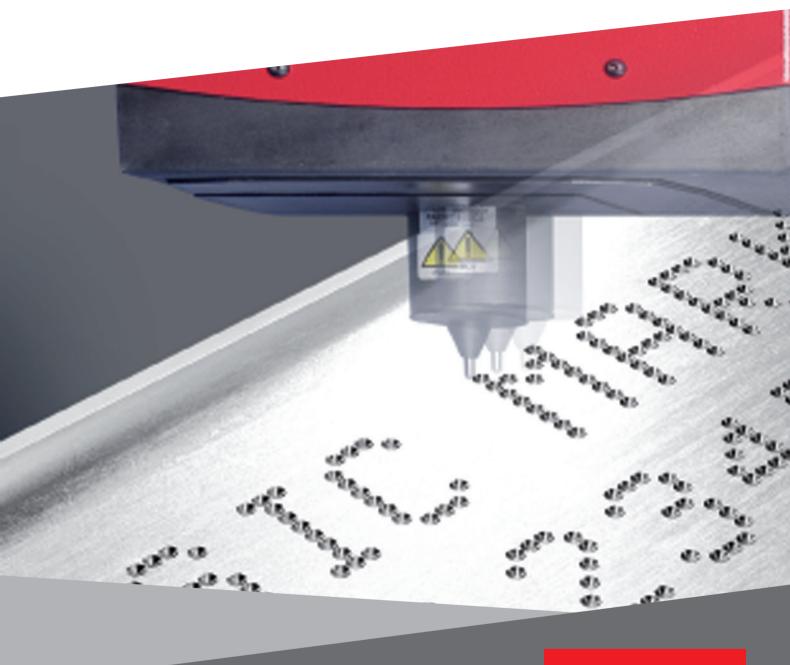
INTEGRATED SYSTEMS





Dot peen marking heads



e10 RANGE

e10-i53

e10-i83

e10-i83v

e10-i14⁻



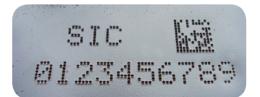


DOT PEEN TECHNOLOGY: FAST, EFFICIENT MARKING ON ANY MATERIAL!

Dot peen marking works by electromechanically striking a carbide or diamond stylus assembly against the surface of a part to be marked.

The result is a succession of dots to create digits, text, logos, and 2D data matrix codes. Each such dot is the result of a pulsed current that runs through a solenoid, punches a magnet toward the surface, and subsequently returns the stylus to its starting position, awaiting the next pulse. Because each pulse occurs in only a fraction of a second, an entire 2D data matrix code, for example, can be completed in seconds (depending on the size). Frequency can be adjusted by controlling the speed of the X and Y axes movements.

What makes SIC Marking's dot peen technology so unique is the constant measurement of the electrical current between each pulse. This allows for constant, precise control of the impact consistency.







INTEGRATED SYSTEMS

Our integrated marking systems are designed for seamless integration into automated production lines, and are engineered for intense industrial use. Their fast and easy integration and high performance record have earned a reputation as a reliable, precise industrial marking solution. They meet the needs of custom requirements, and incorporate fixed-mounted camera systems for automated reading.

HIGHLIGHTS

■ Robust and Reliable

- Fully enclosed system
- Protective bellows
- Designed for intense use in industrial environments

■ Simple and user-friendly

- Fast and easy integration
- Compact (i52)
- Removable robotic cable
- Simple programming

Wide range of options

■ High performance

- 100% electromagnetic technology (no air supply required)
- Precise and accurate guides
- Long stylus for part distance-to-tolerance variations
- High speed
- Powerful integrated software
- Wide marking window (150 x 100 mm / 5.9 x 3.9 in for i141)

Low cost of ownership

- No consumables
- Reduced maintenance

SUITABLE WITH QUALITY STANDARDS

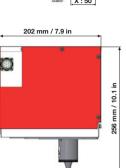
- DT05-89
- XP Pr EN9132
- AQG SPEC 2000
- ISO/IEC 16022
- UID
- DATAMATRIX ECC 200

...

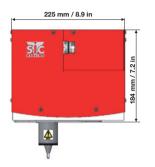












225 mm / 8.9 in

■ ADVANTAGES OF THE i53

- ULTRA COMPACT
- Straightforward integration: 4 mounting faces
- · Fast and consistent marking
- Marking window 50x20 mm / 2x0.8 in

■ADVANTAGES OF THE i83 /i83A.......

- HIGH SPEED AND PRECISION
- Accurate drive mechanism
- Integrated robotic connector for superior protection
- Meets/exceeds aerospace standards
- Marking window 80x70 mm / 3.1x2.7 in

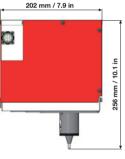
■ ADVANTAGES OF THE i83v / I83va...

- IDEAL FOR DATAMATRIX
- · Accurate drive mechanism
- Reading after marking without movement
- Meets/exceeds aerospace standards
- Marking window 80x70 mm / 3.1x2.7 in

i83v / i83va







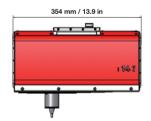


डॉट









■ ADVANTAGES OF THE i141 / I141A...

- LARGE MARKING WINDOW
- Accurate drive mechanism
- Marking window 150x100 mm / 5.9 x 3.9 in

MECHANICAL TECHNICAL FEATURES **i83** i83v i141 **i53 Marking Window** 50 x 20 mm / 2 x 0.8 in 80 x 70 mm / 3.1 x 2.7 in 80 x 70 mm / 3.1 x 2.7 in 150 x 100 mm / 5.9 x 3.9 in Weight 2,6 Kg / 5.73 lbs 7.8 Kg / 17.2 lbs 7.9 Kg / 17.4 lbs 12 Kg / 26.5 lbs **Robotic Cable** 5 m / 16.4 ft (10 m / 32.8 ft and 15 m / 49.2 ft in option) Carbide Stylus 60 mm / 2.4 in (optional up to 150 mm / 5.9 in - limited to 80 mm / 3.1 in for i52) **Protection Bellows** Leather Stainless steel Stainless steel Part Detection (in options) Autosensing system (i83A) Autosensing system (i83vA) Autosensing system (i141A)



Ideal for the integrated range



Color Screen

Standard Characteristics

- Color Screen
- USB Port Easy transfer of marking files
- Connectivity Current standards communication
- Fully Programmable
- Sand-Alone Operation (no PC required)
- Innovative Microprocessor: quick start and smooth browsing
- Marking History and Self-Diagnosis Functions (maintenance help, configuration and statistics)
- Wide Range of Marking Capabilities (data matrix, angular, circular, alphanumeric, logos, etc.)
 - Industrial Membrane Keyboard
- Fully Enclosed Controller IP40 (no openings, no fans)
- 100% compatible with previous machine range

e10 R Features

- Reduced size facilitates fast and easy integration.
- 2 possible configurations: connectors can point upwards or downwards
- Adapted for vertical mounting in electrical cabinet
- Kit for mounting on DIN rails (optional)



■ Front Panel USB connection: import/Export marking files - external keyboard plug



■ Full Connectivity: compatible with different communication protocols

ELECTRONIC TECHNICAL FEATURES

e10 e10 R

7110 Kb

Dimensions (d x I 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

200 X 212 pixels

Keyboard Qwerty-integrated, membrane overlay

Power 300 Watt

Power Supply
Single phase, 85 to 260 VAC, 50 to 60 Hz
Number of Controlled Axes
2 (3rd and 4th axis optional)
OperatingTemperaure
From 5 to 40°C / 40 to 105°F

SOFTWARE

Memory

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

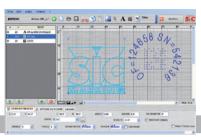
External Output 5V - 0.5A and 48V - 3A

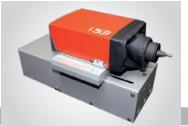
Soft on PC Marking files creation, controller/PC or USB key transfer, historical function

MACHINES









Multi stylus system

Maintenance kit

PC base software

Z axis stroke 50 to 250 mm / 2 to 9.8 in







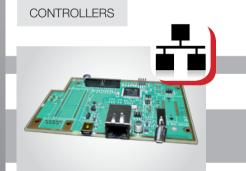


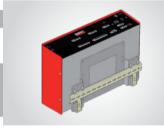
Barcode and Data Matrix reader

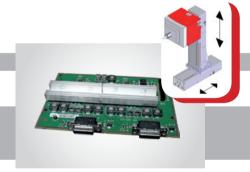
Stylus and guides

Autosensing: Integrated probe for consistent distance between stylus / part.

i113D for deep marking







Ethernet card

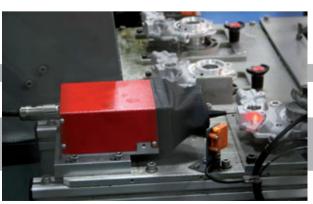
Kit for mounting on DIN Rail

Card for controlling 3rd and 4th axis

APPLICATIONS







Carter line marking with i53



i83 mounted on Z axis

Mark today Identify tomorrow



⊢ თ

ERMANENT MARKING



SIC Marking® ACTIVITIES



DOT PEE



CONVENTIONAL



2015/04) SIC Marking® reserves the right to modify equipment specifications at any time - This document is not contractual.



INDUSTRIAL VISION





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

ZAC Bel-AIR 195 Rue des Vergers 69480 POMMIERS - 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















