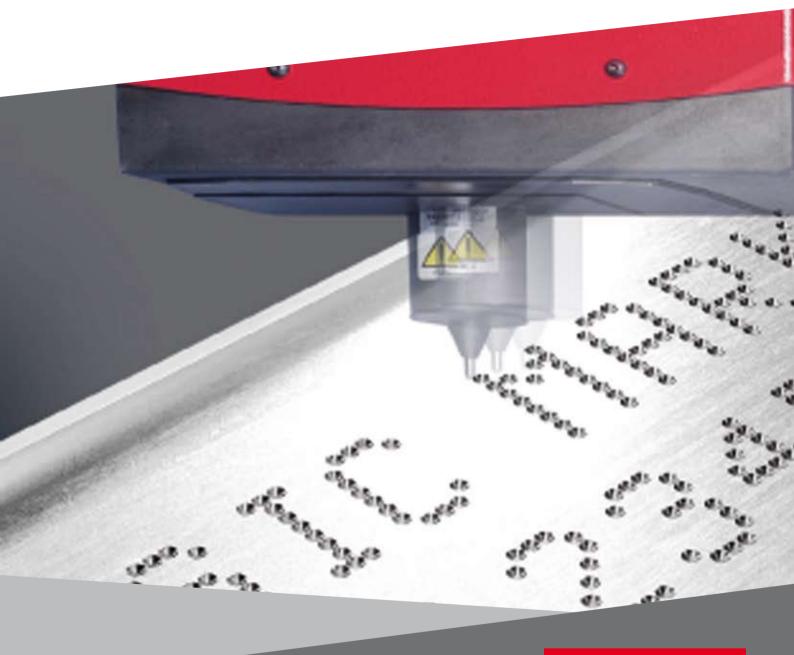
INTEGRATED SYSTEMS





Dot peen marking heads



e10 RANGE

e10-i52

e10-i83

e10-i83v

e10-i14⁻





DOT PEEN TECHNOLOGY: FAST MARKING ON ALL MATERIALS!

Dot peen marking is achieved with an electromechanically fired carbide stylus assembly against the surface of the workpiece.

This type of marking (text, digits, logo, 2D datamatrix code) is made of a succession of dots. Each dot is created by the impact of the stylus on the surface. The force is given by a controlled pulse through an electromagnet, in order to punch the magnet toward the surface. A spring returns the stylus assembly to the start position, waiting for the next pulse. Frequency can vary depending on the force selected and the speed of X and Y axis movement.

SIC Marking dot peen technology is unique by the fact that the electrical current is measured between each pulse in order to control the impact consistency.







INTEGRATED SYSTEMS

Our integrated marking systems are designed to be easily integrated on automated lines and allow heavy use. Their easy integration and high performance make them major products for industrial use. 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 heavy use in industrial environments

■ Simple and user-friendly

- Straightforward integration
- Compact (i52)
- Removable robotic cable
- Simple programming

■ Wide range of options

■ High performances

- 100% electromagnetic technology (No air supply required)
- Precise and accurate guides
- Long stylus for part distance/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
- AQG SPEC 2000 ■ ISO/IEC 16022
- UID
- DATAMATRIX ECC 200
- ..







■ ADVANTAGES OF i52.....

- ULTRA COMPACT
- Straightforward integration: 3 mounting faces
- · Fast and consistent marking
- Marking window 50x20 mm / 2x0.8 in

i83 / i83A





■ADVANTAGES OF i83 /i83a

- HIGH SPEED AND PRECISION
- · Accurate drive mechanism
- Integrated robotic connector for better protection
- Aerospace standards
- Marking window 80x70 mm / 3.1x2.7 in









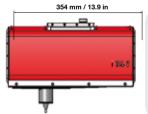
■ ADVANTAGES OF i83v / I83va......

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

i141 / i141_A







■ ADVANTAGES OF i141 / I141a

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

MECHANICAL TECHNICAL FEATURES

i52 i83 i83v i141 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 3.2 Kg / 7.7 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** Rubber Stainless steel Stainless steel Part detection (in option) 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)
- 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)



■ 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

112 x 380 x 222 mm / 4.4 x 15 x 8.7 in or Dimensions (d x I x h) 322 x 380 x 112 mm / 12.7 x 15 x 4.4 in

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

7110 Kb Memory

Text Incrementation, date codes Logos Download from PC/USB key Data Matrix Up to 348 characters, 48 x 48 dots

4x6, Arial, Comic, Comic_B, Courier, OCR, OCR_BOLD, OCRA **Fonts**

Style Angular, radial, inverse, mirror

Character size From 0.1 mm to 99 mm (restricted by marking window size)

9 adjustable levels Impact force

Up to 0.5 mm (depending on material marked) Depth

0.05 mm / 0.002 in Resolution between dots Work shift management 10 shifts/24h Password 3 security levels Historical function Exportable Excel file Maintenance assistance Self-diagnosis

Software 17 languages

COMMUNICATION

RS232, RS422, USB (RS485 Profibus and TCP/IP Ethernet in option) **Ports**

Inputs/Outputs 8/8 External keyboard input 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



i141 mounted on column



Engine block marking by two i52



i83 mounted on Z axis

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

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