PORTABLE SYSTEMS

Stand-alone hand-held units

DOT PEEN

PORTABLE

e10 RANGE

e10-p62
e10-p123

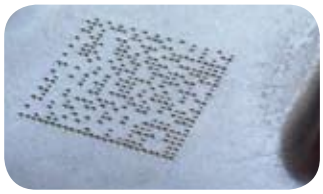
SIC MARKING

DOT PEEN TECHNOLOGY : FAST MARKING ON ALL MATERIALS !

Dot peen marking is achieved by a controlled electromagnetic pulse striking a carbide stylus assembly against the surface of the part to be marked.

This type of marking (text, digits, logo, 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 controlled by sending more or less current through the solenoid, in order to project the stylus 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 movements

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. In addition, X and Y axis accuracy enables marking of high quality 2D Datamatrix codes.



PORTABLE SYSTEMS

Portable dot peen markers are designed to be used in industrial environment. Our portable range is mobile, lightweight, sturdy and reliable, which is ideal for marking heavy, large and difficult to access parts. These machines can be used for fast and powerful marking on all types of materials ranging from plastic to steel of 62 Hrc with a constant precision and quality.

Operational cost of these machines is very low; no consumables are required.

HIGHLIGHTS

■ Robust and reliable
- Designed for intensive use
- Aluminum cast base

■ Simple and user-friendly
- Lightweight
- Mobile, ergonomic, and versatile
- Easy programming

■ Wide range of options
- Electromagnetic clamping
- Deep marking

■ High performances
- **100% electromagnetic technology (no air supply required)**
- Constant precision and quality
- High speed
- Powerful stroke
- Marking on all kinds of materials up to 62 HRC

■ 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

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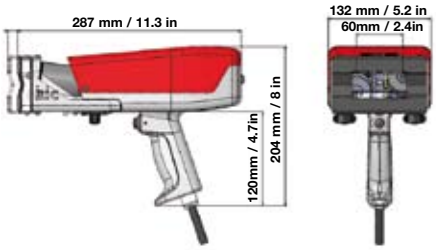
p62

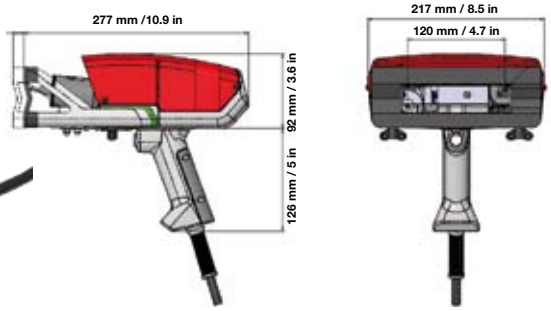


Marking window - 60 x 25 mm / 2.4 x 1 in

ADVANTAGES OF e10 p62.....

- **LIGHTWEIGHT AND COMPACT**
- Only 3.5 kg / 7.71 lbs
- Usable with one hand
- Robust cast aluminum body and handle
- High precision (ideal for Datamatrix)

p123



Marking window - 120 x 25 mm / 4.7 x 1 in

ADVANTAGES OF e10 p123.....

- **WIDE MARKING WINDOW**
- Robust cast aluminum body and handle
- Stainless steel spring strain relief for cable protection
- V-grooved front plate with adjustment settings for stylus/part distance
- LED lighting of marking area

«Booster» card option : e10D p123 enables deep marking on hardened steels

MECHANICAL TECHNICAL FEATURES

	e10 p62	e10 p123
Marking window	60 x 25 mm / 2.4 x 1 in	120 x 25 mm / 4.7 x 1 in (option 120 x 40 mm / 4.7 x 1.6 in)
Weight	3.5kg /7.71 lbs	3.7 kg / 8.15 lbs
Robotic cable	7.5m / 24.6 ft (10m or 15m in option)	
Stylus	Carbide	
Positionning	V-groove front plate	
Column (in option)	Stroke 270 mm	
Rotary D axis (in option)	For parts up to 150 mm / 5.9 in diameter and 3 kg / 6.6 lbs	

e10

Standard Characteristics

- Color screen
- USB port - Easy transfer of marking files
- Connectivity - Current standard communications
- Fully programmable
- Sandalone operation (no PC required)
- Cutting-edge microprocessor: quick start and smooth browsing
- Marking history and self diagnosis functions (helped maintenance, configuration and statistics)
- Many types of marks (DataMatrix, angular, circular, alphanumeric, logos, etc.)
- Industrial membane keyboard
- Fully metallic enclosure controller IP40 (no opening, no fans)
- 100% compatible with previous machine range

Color screen

USB connection on the front panel: import/ Export of marking files - Keyboard external plug

Full connectivity : compatible with different communication protocols (some are optional)

ELECTRONIC TECHNICAL FEATURES

	e10
Dimensions (d x l x h)	322 x 380 x 112 mm / 12.7 x 15 x 4.4 in
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
Exernal keyborad input	USB
External output	5V – 0,5A and 48V – 3A
Soft on PC	Marking files creation, controller/PC or USB key transfer, historical function

Options, accessories and applications

MACHINES

Magnetic clamping

Battery cart

Column / plate holder

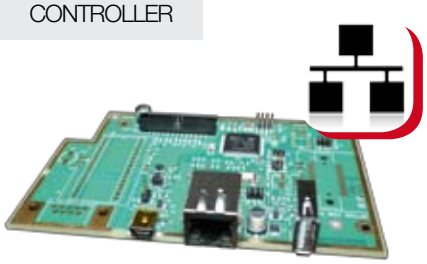
Hook and balancing system

Maintenance kit

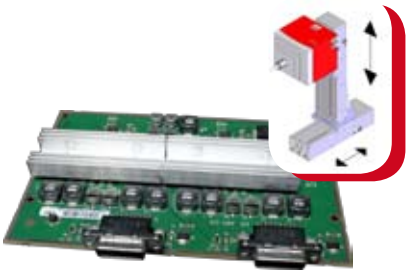
Data Matrix reader

Rotary axis

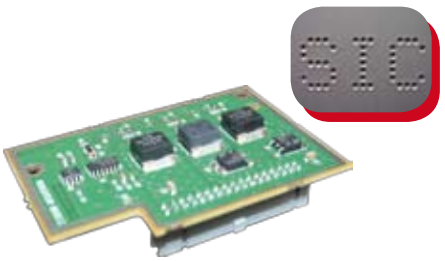
CONTROLLER



Ethernet card



Card for controlling 3rd and 4th axis



Booster card for deep marking

APPLICATIONS

Custom front plate P123

Magnetic front plate

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.

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- DOT PEEN
- SCRIBING
- LASER

INDUSTRIAL VISION
- INDUSTRIAL VISION

TURNKEY SOLUTIONS
- TURNKEY SOLUTIONS

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