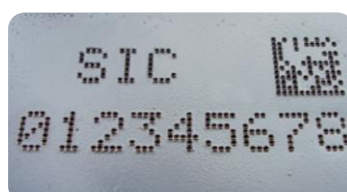


ec1: Column-mounted system



PRINCIPLE

The **ec1 column-mounted marking system** completes the marking of parts using electromagnetic dot peen technology. This process allows reliable and unalterable marking directly onto the material. The marking (alphanumeric text, logo, 2D Data Matrix code) is defined by a succession of dots from a tungsten carbide stylus mounted in an electromagnetic solenoid/ stylus assembly. Managed by the electronic controller, the stepper motors drive the movement of the stylus.

Extreme accuracy, speed, and robustness make column-mounted machines a perfect solution for all types of dot peen marking. **The ec1 machine** produces excellent markings, and is particularly suitable for marking Datamatrix codes.

Among the range of stand-alone marking stations, column-mounted units are perfect to use in industrial environments and will provide precise part marking on any material, including plastics and hardened steel up to 62 HRC. The electro-magnetically driven carbide stylus accepts parts of various shapes and surface conditions (flat, concave, convex surfaces, circular, raw, machined ...) and requires only a single power source.

The intuitive ec1 software was created to be as simple as possible using an industrial keyboard covered with a membrane and a large colour screen.

ec1 marking machines are reliable, precise and versatile systems.

DESCRIPTION

The standard machine consists of only 1 element:

1- Mechanical specifications of the ec1 column-mounted system

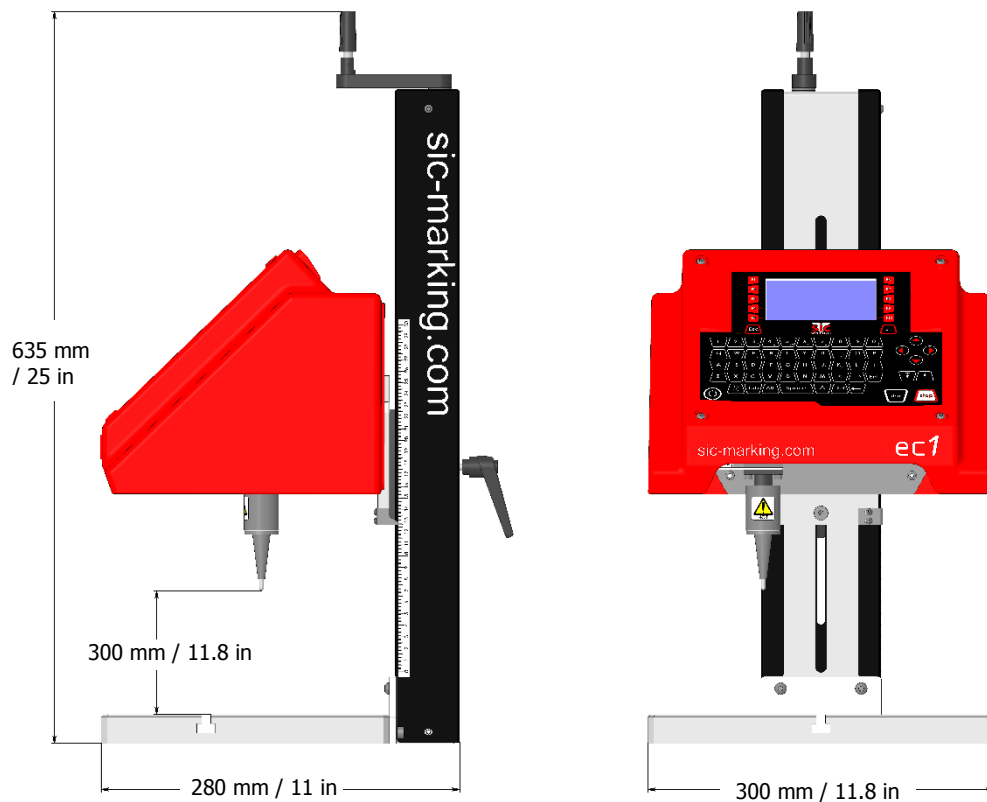
- Structure integrating column mechanics and controller.
- High quality finish red plastic cover .
- Flexible handle for a smoother column movement.
- Steel graduated column for easy stylus / piece distance adjustment.
- Transmission of motion by rack and pinion.
- Stepper motors control the movement of the stylus.
- Tungsten carbide stylus activated by an electromagnet.
- Fully electric, no compressed air necessary.

- Modernized user interface and optimized software's ergonomics.
- Additional USB port.

Characteristics:

- Marking window: 120 x 100 mm / 4.7 x 3.9 in
- Dimension: 311 x 300 x 635 mm / 12.2 x 11.8 x 25 in
- Weight: 16 Kg / 35.2 lbs
- ON/OFF button allowing to start and stop the marking cycle

Dimensions:



2 - Embedded controller:

ec1

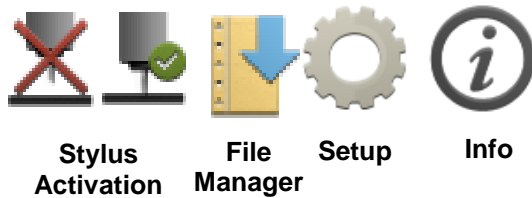
Screen	HD, Colour, 95 x 54 mm
Keyboard	Integrated, industrial membrane keypad
USB	yes
Memory	100 Mo
Power	200 Watt
Operating Temperature	5 to 40°C
Variable	Alphanumeric, incrementation, timestamping, barcode
Logo	Downloads from a PC or a USB key
Fonts	4x6, Arial, Courier, OCR, OCR_BOLD, OCRA
Style	Angular, linear, radial, datamatrix, logo
Character Size	From 1 mm to 99 mm (restricted by marking window size)
Impact Force	9 adjustable levels
Depth	Up to 0,3 mm (depending on marked material)
Resolution between Dots	0,05 mm
Password	2 security levels



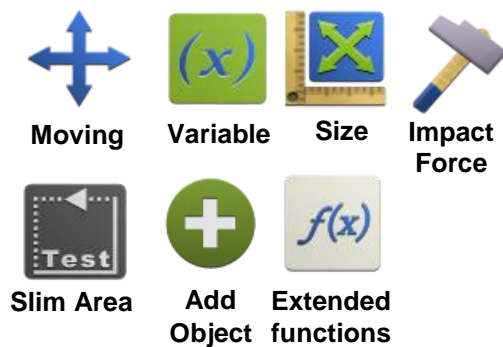
2 – Intuitive software:

The ec1 software has been completely rethought for easy control and greater intuitiveness. Easy and quick creation of all your marking programs directly on the controller...

Start menu



Edition Menu



Extended Functions



Setup



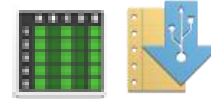
Creation of object

- 2D & Data Matrix codes
- Alphanumeric characters
- Logos



File management

- File edition
- Importation of internal marking files
- Importation of files by USB



D axis Management



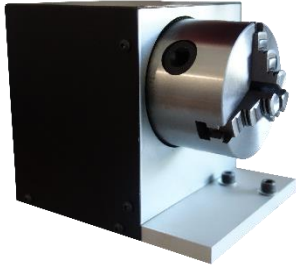
Other functions

- Alphanumeric variable and alphanumeric serial number
- Incremented global and local variables
- Configurable increment (value, offset, step and frequency)
- Reset of the serial number at change of day, month, year or week
- Marking Simulation function
- Pause during marking
- Solenoid manager

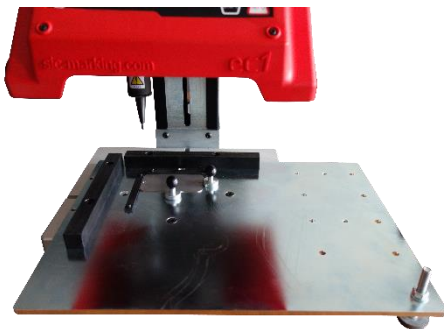


Options & accessories

- **Rotary D axis (to mark circular parts)**



- **Plate Holder**



- **Wireless barcode reader**



- **Start Pedal**



Button Box

