Monode™
MARKING PRODUCTS, INC.

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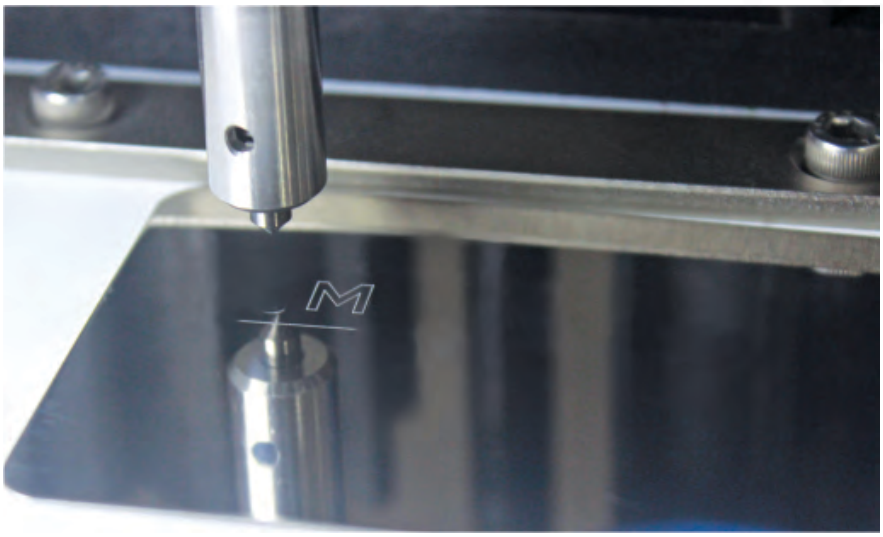
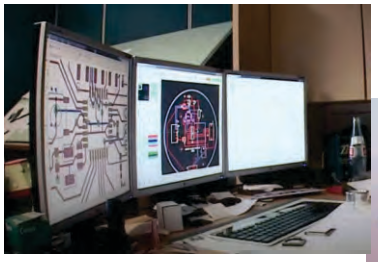
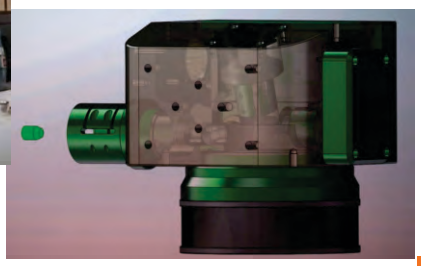
Monode Marking Products has over 60 years of industry related experience in providing ***Direct Part Marking Solutions*** to sectors in Automotive, Aerospace, Medical, Gas and Oil and many other industries that require direct part marking solutions.



An experienced and enthusiastic team of people ready to provide the best level of support necessary to ensure your success.

Design to Order and off the shelf solutions available for each of the technologies we offer. All products are designed & manufactured using the latest technologies available as well as the many years of industry experience in proper design consideration.





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Automotive Industry and
Tiered Suppliers

Steel
Construction
Mining

Military, Aerospace, Armament,
Medical Devices

Transportation Industry
Railways
Civil Engineering

Oil & Gas
Material Handling

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Design & manufacturing of machine solutions since 1956, built to provide years of durability, reliability and exceptional quality.

Global Reach

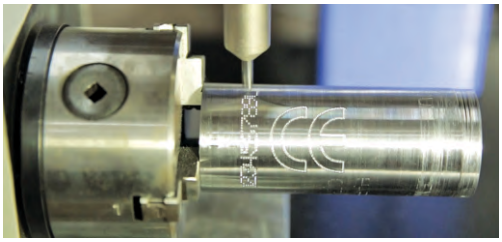
- Poland
- Germany
- Colombia
- Brazil
- Denmark
- France
- Portugal
- Spain
- Italy
- Austria
- Estonia
- Russia
- South Korea
- UK
- Ecuador
- USA
- UAE
- India

We are actively seeking Manufacturers Representatives and Distribution Partners in all countries including USA.

CE

Dot Peen Marking

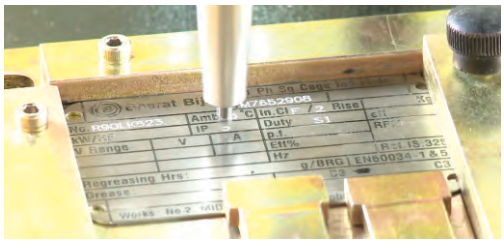
Dot Peen marks are permanent, capable of depths up to 0.020 deep on some materials and offer high quality, high speed marks. Machines can mark on metals with a hardness up to 62HRc, plastics, wood, glass, sand molds, etc. Dot Peen is a cost-effective permanent marking process for all type of markings (text, logo, data matrix, QR Code) on both metal & plastic components.



Rotary Marking on Steel

Marking on Plastic

Marking on Flange



Name Plate Marking

Portable Machine

Materials Marked:

- STAINLESS STEEL
- ALUMINUM
- TITANIUM
- COPPER
- PLASTICS
- BRASS
- WOOD
- STEEL

Technology

Electromagnetic marking technology utilizes an electromagnetic coil that fires the carbide stylus against the component to produce the impact. The depth is managed by the distance between stylus tip and part surface as well as an electronic ***Force*** setting, providing an accurate and repeatable mark. **NO AIR REQUIRED.**

Range of Machines

Cordless handheld markers designed for industrial use. Mobile and sturdy with POLY rigid body, suited for marking on heavy, large and difficult to access components. Can also be mounted on a column to provide fixed and mobile marking solutions.

Column mounted machines most suitable for bench top operator applications, available with customized fixtures, Electric Z Axis, Autosense, Rotaries, Tag Feeders and Flip Carts.

Integration heads with touchscreen controllers are designed with a compact footprint allowing for easy integration into existing or new applications. Buss Protocols for communication to major brand PLC's available along with bellows for protecting motion hardware.

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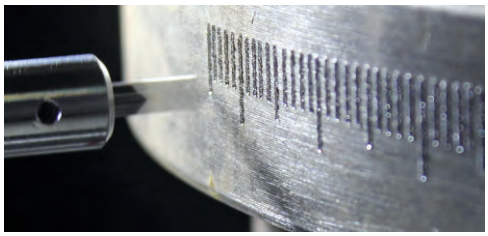
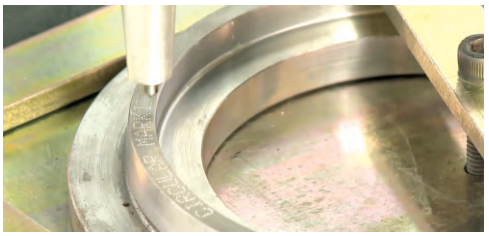
Integration Heads

Range of SIA Machine

Model Name	Marking Window (mm)	Weight
I1	50 x 30	2.5 Kg
I2	80 x 30	2.7 Kg
I3	150 x 50	3 Kg
I4	120 x 100	7.3 Kg

- Compact marking heads for easy placement and approach on automation devices
- Mounting with 4 M8 Screws for secure and safe mounting
- Small heads available with Rexin Bellows for protection from dust and ingress
- Large windows size of 50x30 mm in a very compact form factor
- Rugged Aluminum construction to suit industrial environments
- Linear X & Y Axis for consistent depth across the complete marking window
- Multiple Stylus Assemblies to choose from depending on application requirements
- Military grade secure connection to the controller
- Connecting cables available in multiple lengths to suit application location
- Use optional holding stands for table top working





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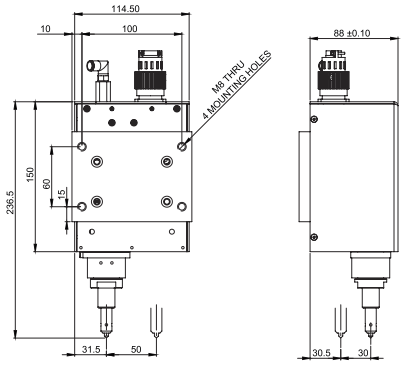
I1



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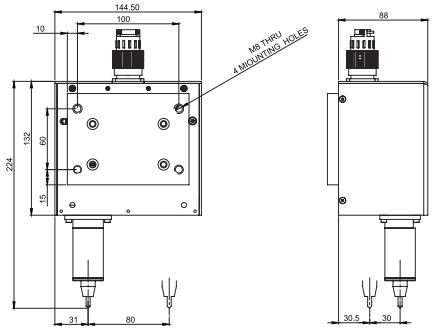
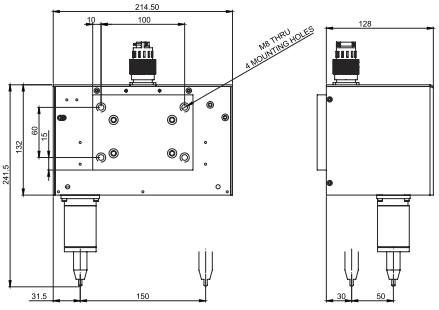
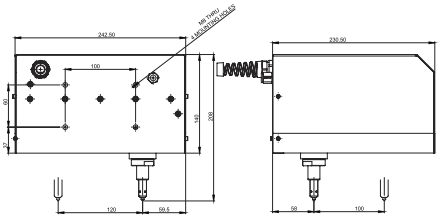


I3



I4



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M3

Specifications:

Model	MNSB-53, MNSB-155
Type of Version	Electric
Axis	2 Axis
Type of Machine	Portable / hand held
Marking Area	50mm x 30mm, 150mm x 50mm
M/c Construction	Robust drop resistant 30% glass filled nylon body for industrial use
Color of Machine	White & Blue
M/c Comm.	Via Wi-Fi Hotspot inside the machine; no separate wi-fi required
Battery	Powerful Lithium - battery for up to 8 hours of normal working
Weight	Light weight only 2.4 kg, 3.4 kg
Force of Marking	9 different force codes for precise depth setting
Type of guide	Linear guide for uniform marking depth in complete window
Working	Standalone; stores design with many strings and logos
Packaging	Sturdy bag for complete kit for easy storage and transportation
Data entry	MNSBlauncher app on smart phones, tablets and laptops
Battery	Li-ON standard battery from Makita, available in 4 capacities
Combo Working	Fixtures on holding stand available to use machine as tabletop
Illumination	LED lights to illuminate marking area for clear visibility

Minimum Requirements for smart phones / tablets

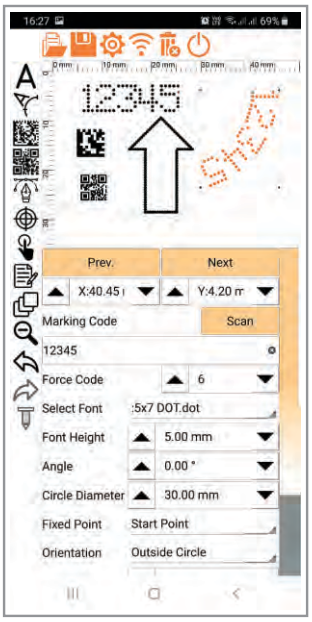
OS	Any Android, iOS & Windows devices
Display Size	5.5 inch
Capacity	16 GB
RAM	2 GB

KioWare Application

Tablet Controller

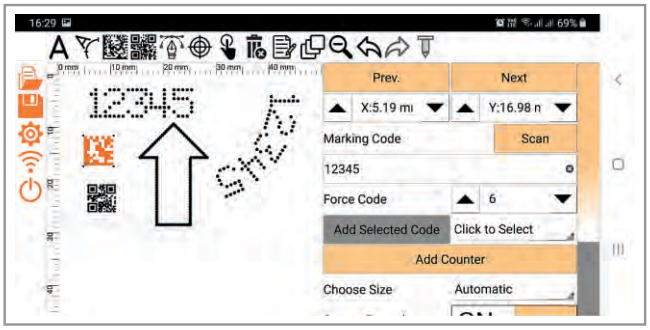
M3 Launcher Application

- M3 Launcher App on Play Stores
- Simple user interface, very easy to learn and be an expert in few minutes
- Available for Android, iOS and Windows Operating Systems
- Multilingual user interface in 22 different languages
- Unlimited design data storage in the mobile or tablet or PC
- Just create design and transfer/Sync to machine. No need to keep the App connected to the machine
- QR Code and Datamatrix marking available at no extra cost
- Use Mobile camera as barcode scanner from the App, no additional device required
- Video Help on use of all features of the App available directly from the App
- Easy to mark DXF, HPGL and PLT Files for marking logos
- Protect unauthorized access to designs with password protection and production mode working
- Lock a Mobile/Tablet/PC to the marking machine to prevent unauthorized machine connections
- Powerful features of Date based codes marking, Multiple reset options for incrementing counters and many more
- Different marking depths for each block with 1 to 9 force codes
- Kiosk Mode working: Use an optional Kiosk application on Android to lock all other Apps and use an Android Smart phone or Tablet as a dedicated controller. Completely lock the camera and other hardware features in this Kiosk working mode.



Carry Case for M3-53

Carry Case for M3-155



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Column Mounted Series

D2 Touch

D2 Touch Plus

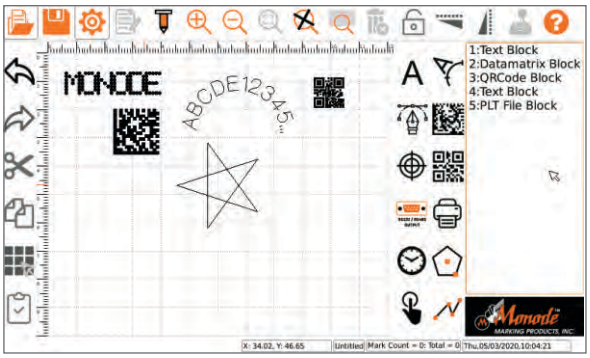
ICE

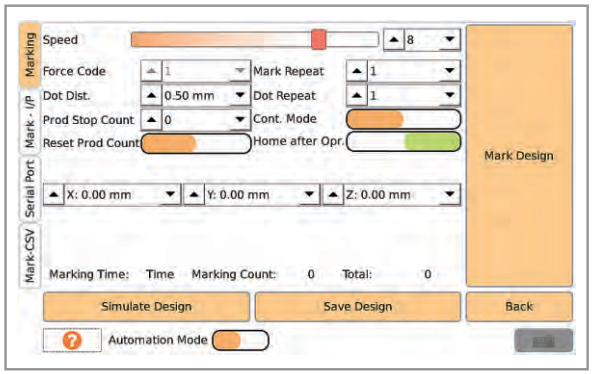
Specifications:

Type of Machine ..... Tabletop Marking Machine for name plate or component marking applications
Firing of the Pin ..... Electric
Axis ..... Default 2 Axis machine. Easily upgrade to 3 or 4 axis working
Power Supply..... 24V 5A Power Adapter for Electric version. 24V 10A Power Adapter for Auto-Touch Accessory use with Electric version
Display..... 7" Resistive Touch Screen Display built into the Marking Head
Storage ..... Unlimited Storage Capacity
Force Codes ..... 9 Force Codes in Electric version to adjust depth
2D Bar codes ..... Datamatrix & QR Code Marking Possible
Features ..... Normal, Inverted, Mirror, Circular, Inside Circle, Incremental Serial Numbers, Date, Variable Data, Date, Month, Year, Week, Day Codes, Array Copy, Text Block, PLT File Block, Blank Points, Timer, Wait for Start, Constant Length Marking and many more...
Fonts ..... Dot 5×7, 7×9 & 11×16, Single Line Standard, Fast Font & Cursive Font are Fast Fonts, over 8 other Artistic Fonts.
Logos ..... Unlimited HPGL PLT & DXF download from PC using a USB Thumb Drive
CSV File..... Ability to mark data from a CSV File
Secure working..... Lock the designer mode with password and use the Production mode for trouble free working
Barcode Scanner ..... Ability to connect a Barcode Scanner on RS232 port and mark scanned data directly. Intelligent parsing of scanned data built into the machine
Barcode Printer ..... Ability to directly print marking data to barcode labels from a barcode printer connected over RS232 port
Bill Printer ..... Ability to send marking string over RS232 port and print the marking status
Ports..... RS232 & RS485 for I/P and O/P Comm. with PC or PLC. Modbus Communication Protocol established over RS485 for SCADA communications
Inputs..... 5 Inputs for automatic design selection
Outputs..... 2 Outputs, end of marking, machine ready for marking & error
Industrial Comm..... Any bus Converter Device for ProfiNET or Profibus Connectivity over RS485 Modbus

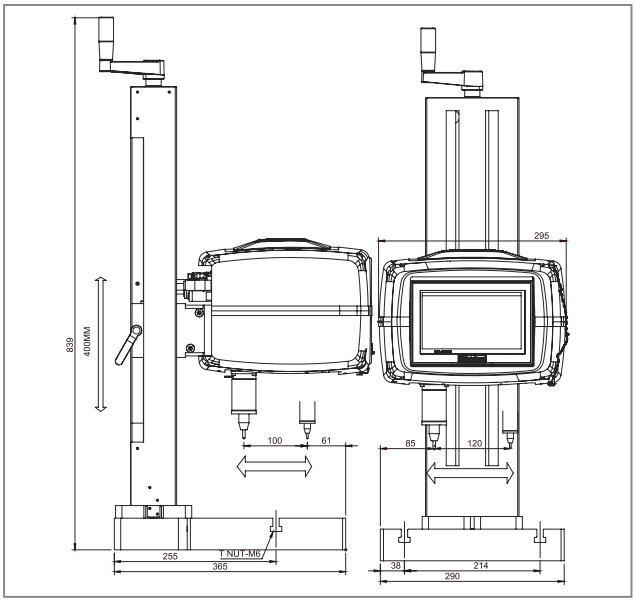
Software Features for Column Mounted Series

- Innovative User Interface designed for touch screen, packed with lot of features
- Multilingual user interface in 22 different languages
- Unlimited Design storage facility
- Easily mark DXF & HPGL PLT Files for marking logos
- Standard Alphanumeric marking in straight, angled and circular pattern
- QRCode and Datamatrix marking available at no extra cost
- Powerful features of Date based codes marking, Multiple reset options for incrementing counters and many more
- Different marking depths for each block with 1 to 9 force codes
- Easily mark data from Excel file or Database using CSV File Marking feature
- Inputs & Outputs for easy integration with other machines and devices
- RS232 port for Serial Communication
- Modbus RTU over RS485 for PLC or SCADA communication. Also used for EtherCAT or ProfiNET or similar communications using suitable converters
- Protect unauthorized access to designs with password protection and production mode working
- Direct output to Barcode Printers over RS232 port
- Record Marking Log for tracking and eliminate manual record keeping





MNS-EMHTC



Monode™
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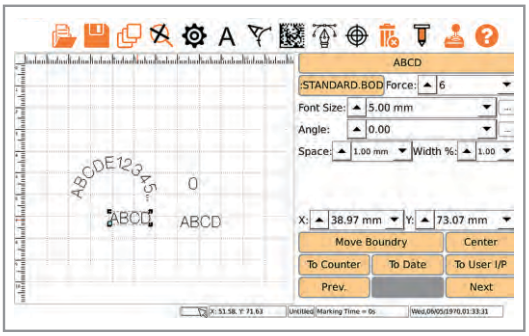
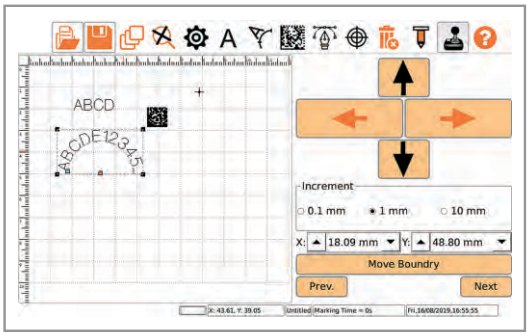
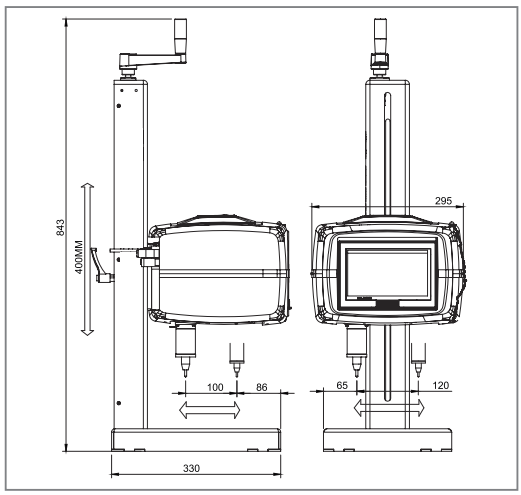
ICE

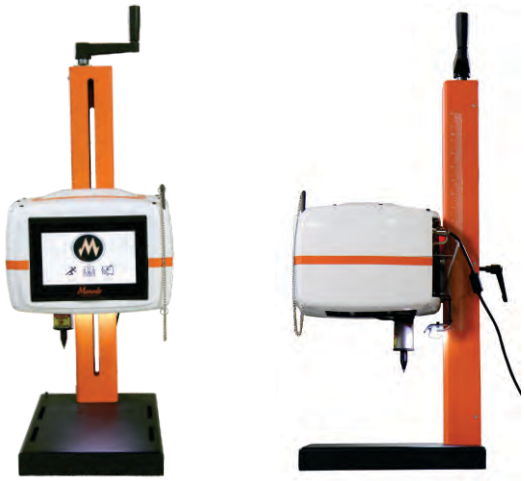
- Simple user interface, very easy to learn and be an expert in few minutes
- Limited features sufficient for most standalone machine applications
- 120mm x 100mm marking window
- 2 in 1 machine, can use either the touch interface or connect to PC with ethernet cable
- 7" Resistive industrial grade touch screen with attached stylus pen for use
- 400mm column
- Multilingual user interface in 22 different languages
- Unlimited Design storage facility
- Easily mark DXF and HPGL PLT Files for marking logos





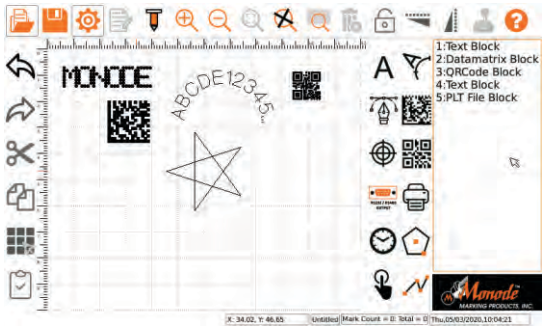
MNS-EMTC

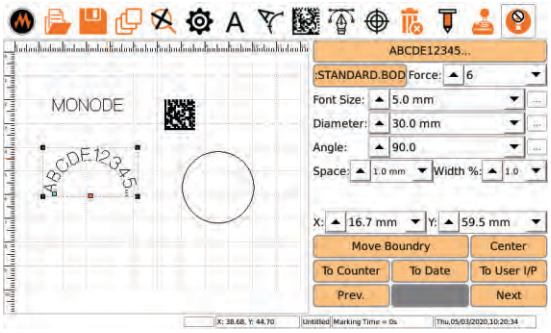




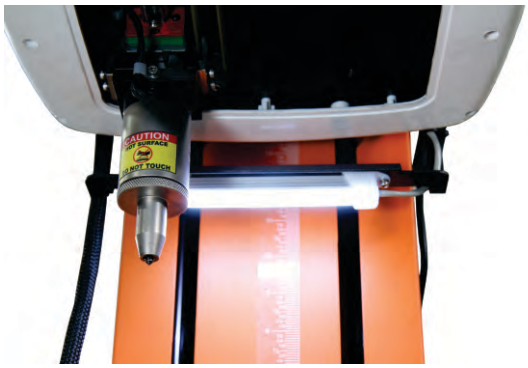
D2 Touch Series

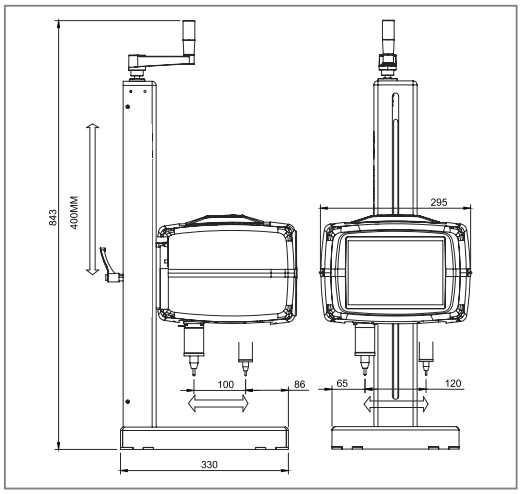
- 120mm x 100mm marking window
- 400mm column
- Multilingual user interface in 22 different languages
- Ethernet and Wifi Connectivity with Windows PC/Laptops/Tablets
- Easy connection to existing Intranet networks to avoid keeping a PC on factory floor
- D2 Touch 2 axis machine easily up-gradable to 3 axis
- D2 Touch Plus 3 axis machine easily up-gradable to 4 axis
- Mark alphanumeric text, DXF or PLT logos, Datamatrix or QRCode barcodes
- CSV File Marking, Barcode Printer Interface, record marking log for tracking
- Inputs & Outputs for easy integration with other machines and devices
- Optional SDK for software customization or 3rd party software integrations
- Multiple Accessories to choose for machine customization





MNS-EMPC





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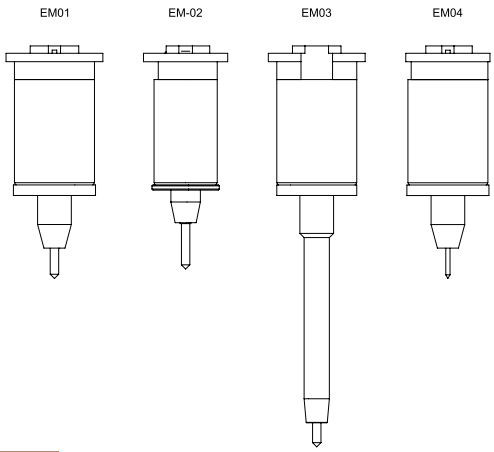
Portable Marking

- Most Compact portable markers available in 3 sizes
- 50x30mm, 80x30mm and 150x50mm
- Convenient Aluminum handle
- Available in Pneumatic and Electric versions
- Linear X & Y Axis for consistent depth across the complete marking window
- Multiple Stylus Assemblies to choose from depending on application requirements
- Military grade secure connection to the controller
- Connecting cables available in multiple lengths to suit application location
- Combo Column frame available to use portable machines for table top working
- Machines fitted with front tray as standard accessory

Deep Marking Portable

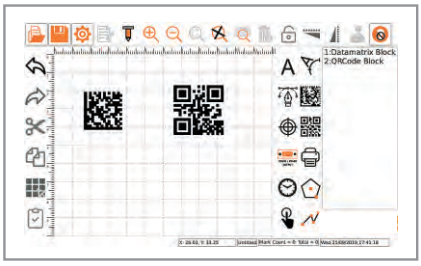
- A handheld marker with robust construction for deep marking applications
- Available in 150x50mm window size
- Special Front holding attachment for better grip on the part surface
- Optional attachment with permanent magnets holding helps free operator hands

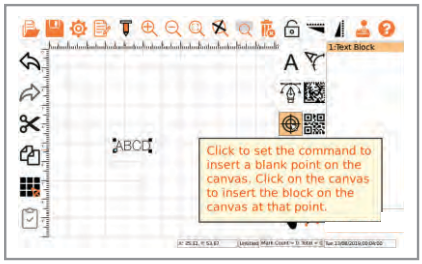
Stylus Assemblies

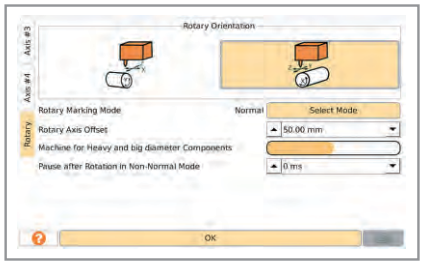


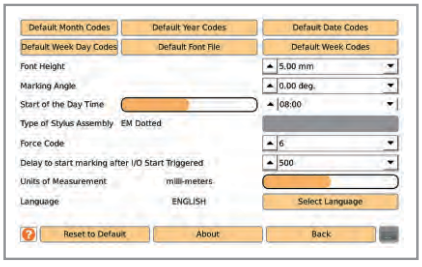
C2 Controller

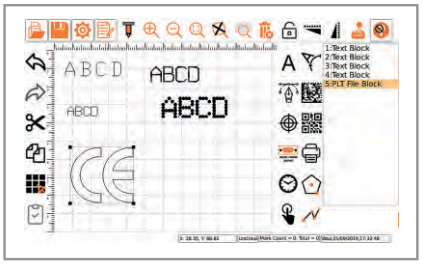
- Strong Steel construction
- Built-in fan for cooling electronics
- 7" Resistive touch screen for industrial use
- Mount controller as table top, wall mounted or Panel mounted
- Screw type military grade connectors for secure connection
- Simple to use and understand user interface
- Multilingual user interface in 22 different languages
- Powerful feature of Jog to accurately position tool w.r.t. the work piece
- Mark alphanumeric text, DXF or PLT logos, Datamatrix or QR Code barcodes
- Multiple fonts are available to choose.
- CSV File Marking, Barcode Printer Interface, record marking log for tracking
- Inputs & Outputs for easy integration with other machines and devices
- RS232 port for Serial Communication
- Modbus RTU over RS485 for PLC or SCADA communication. Also used for EtherCAT or ProfiNET or similar communications using suitable converters
- Protect unauthorized access to designs with password protection and production mode working
- USB Port for File Transfer
- On screen help on every screen





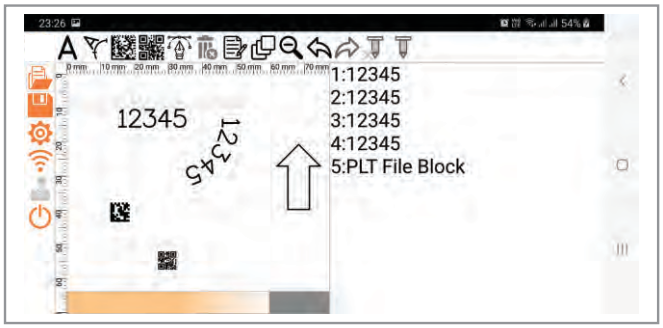


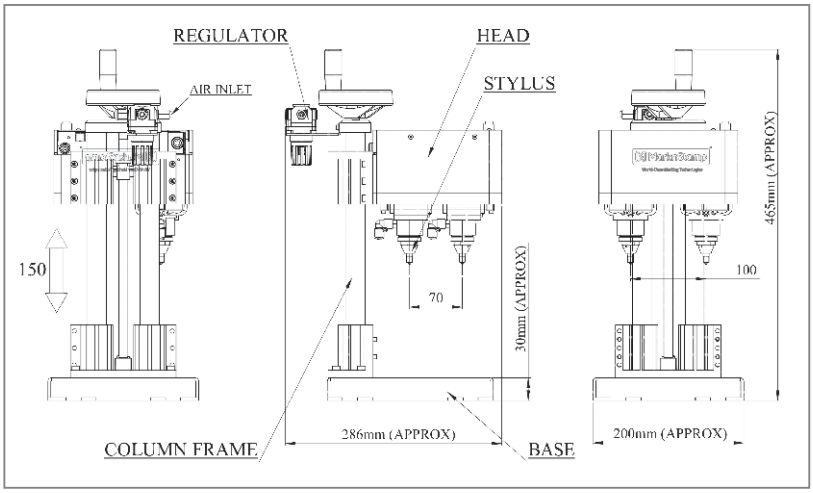


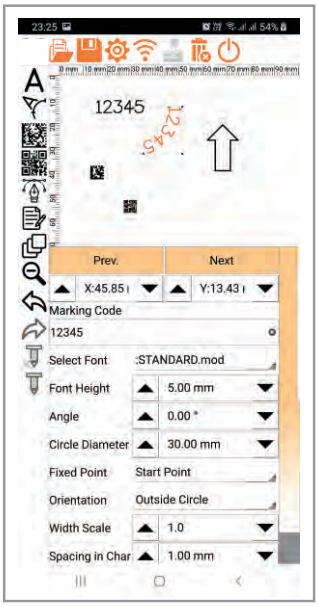


Simple Marker

- Robust machine and holding stand
- 100mm x 70mm marking window to cover most marking applications
- Standard holding stand of 150mm height
- Communication over Wifi Hotspot of machine, no other Wifi network required
- Use standard Mobile or Tablet or Laptop for operation
- Simple to use with one button for all operations
- Use a standard 19V 1.8A adapter for power
- Drawing of accessories available for download
- Multi-color LED to indicate machine status







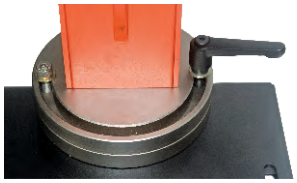
Accessories

Manual Name Plate Device

Auto Name Plate Feeder

Head Tilting Attachment

180° Rotating Fixture for CF01



Foot Pedal

Small Rotary Device

Large Rotary Device

Independent Resting Legs

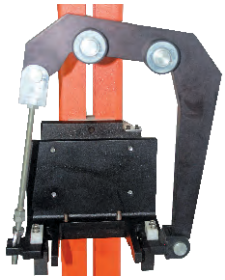
Flange Marking Attachment

Front Fixture - 'V' Groove & Magnets

Front Fixture - 'V' Groove no Magnets

Multiple Fixtures for Face Marking

Combo Attachment



Carry Case for M3-53

Carry Case for M3-155

Marking Window Extender

300mm Column Frame

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