



# MDM SERIES

# METAL DOT MATRIX 1000 - 2000

## MDM1000 metal dot matrix



Manual input / output  
Single Access Point

Emergency Stop

LCD display and front control panel  
for technical diagnostics

## FEATURES

standard



## USED BY

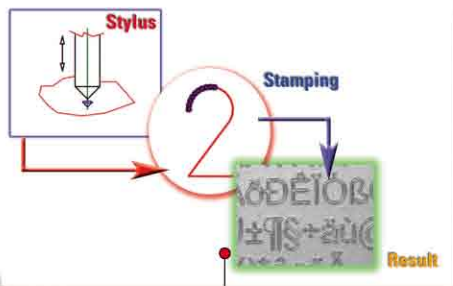
- SHIPYARDS
- STEEL PLANTS
- MILITARY
- MANUFACTURERS OF:
  - WHITE GOODS
  - MOTORS
  - AUTOMOTIVE COMPONENTS
  - PUMPS
  - LIFTS
  - CRANES
  - FIRE DOORS
- LOGGING INDUSTRIES
- LOGISTICS MANAGEMENT

## THE MOST VERSATILE MARKING SOLUTION FOR INDUSTRIAL PRODUCT IDENTIFICATION

## IDEAL FOR

- CABLE / HOSE TAGS
- INVENTORY / ASSET CONTROL & TRACKING TAGS FOR HARSH ENVIRONMENTS
- WORK IN PROGRESS COMPONENT ID
- HEAT-TREATED PROCESS
- SERIAL NUMBER TAGS
- INDUSTRIAL SAFETY TAGS

## MDM2000 metal dot matrix



Up to 250 plate  
capacity hoppers:  
input & output



## SOFTWARE



## INCLUDED



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# MDM SERIES

# METAL DOT MATRIX 1000 - 2000



Logo + text 18 characters  
 Font arial 18 - 1 row  
 Standard quality 133 s.  
 Draft quality 80 s.



Text 49 characters  
 Font arial 18 - 6 rows  
 Standard quality 164 s.  
 Draft quality 99 s.



## TECHNICAL FEATURES

### PLATE & FEEDER

**dimensions** width: 30 ÷ 115 mm / 1.18 ÷ 4.53 in - only MDM1000 up to 180 mm / 7.092 in  
 height: 21 ÷ 90 mm / 0.83 ÷ 3.54 in - only MDM1000 up to 110 mm / 4.334 in

**thickness** 0.4 ÷ 0.9 mm / 0.0157 ÷ 0.0354 in

**materials** aluminium, copper, and brass

**input hopper** MDM1000: manual feed - Single Access Point  
 MDM2000: up to 250 plate capacity. (Ø 0,4 mm/0.0157 in)

**output hopper** MDM1000: manual feed  
 MDM2000: up to 250 plate capacity. Options: FIFO (first in – first out) technology or side eject

### STAMPING

**technology** micro percussion using a stylus in Widia steel - marking pressure adjustable depending on the material to be stamped (standard force 500 N)

**resolution** 200 DPI

**fonts** standard Windows fonts including special characters and symbols

**logos** up to 2 at a time, resident in equipment. Max area about 84 cm<sup>2</sup> / 13 square in

**lay out facilities** fonts and logos can be rotated 90/180/270

**stamping area** full plate except for 1 mm / 0.039 in from the top and left/right edges and 7 mm / 0.28 in from the bottom edge. Avoid edges in order to not damage the stylus.

**performance** depending on font and logo size - marking speed 50 dots per second  
*stamping in 'DRAFT' mode increases the speed by 65%*

### COMMUNICATION INTERFACE & SOFTWARE

**communication interface** RS232 serial port

**protocols** CIM, Xon-Xoff, MultiEmbosser and Pound-Pound

**operating system** Sword PC application proprietary software compatible with Windows 2000/XP/Vista

**application software** automatic data field; plate archive; DBIII, DBIV, Excel, MS Access file compatibility; self diagnostics, automatic repetition of faulty plate personalization, resettable and non-resettable counters.

**LCD Edit** via external keyboard; 20 storable formats downloadable

**data format** 50 fields of 80 characters each (Variable, Fixed data, Counters, etc.)

### HARDWARE

**power supply** 100 - 117 - 220 - 230 or 240 Volts - 50 or 60 Hz

**power consumption** 100 Watt

**operating environment** temperature: 5 ÷ 40 °C / 41 ÷ 104 °F  
 relative humidity: 30% ÷ 90 % non condensing

**dimensions (WxDxH)** MDM1000/MDM2000: 630 x 740 x 380 mm / 24.8 x 29.1 x 15 in

**weight** MDM1000 54 Kg / 119 lbs - MDM2000 57 Kg 126 lbs

### VARIOUS

**LCD display** 2 lines of 40 character LCD display for diagnostics and offline operation

**FLASH memory technology** for easy firmware upgrade operation

**Others** Lithium back up battery; security operation with key lock; machine status indicator lights; near end input / near full output hopper plate sensors for continuous production (MDM2000); visual alarm kit for operator alert

**VERSATILE** - The dot peening technology makes the **MDM1000 / 2000** one of the most versatile marking solutions for metal plates, since it allows total freedom in designing the plate layout.

**EASY & FLEXIBLE** - Manual (**MDM1000**) or automatic (**MDM2000**) loading and unloading has never been easier. Equipped with a unique clamp for plates of most dimensions and metals, the **METAL DOT MATRIX** are designed to meet most requirements in metal plate marking.

CIM has developed various command protocols allowing the **MDM1000 / 2000** to easily interface with custom applications.

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