USED BY:

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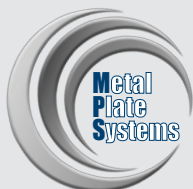- POWER AND UTILITY COMPANIES

IDEAL FOR:

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

SOFTWARE

powertag LITE

OPTIONAL:

powertag EVO

Metal Plate Systems

METAL DOT MATRIX SERIES
MDM 1000 - 2000

MDM 2000
IS NOW ABLE TO MANAGE
MULTIPLE FONTS EASILY.
It works with
up to 3 different fonts.

ARIAL - ABCD 12345
TIMES - ABCD 12345
LUCIDA - ABCD 12345

DOT PEEN METAL MARKING SYSTEM
THE MOST VERSATILE MARKING SOLUTION FOR INDUSTRIAL PRODUCT IDENTIFICATION

MDM Series is **DOT PEEN METAL MARKING SYSTEM** that produce laser-like marks by a series of **MICRO PERCUSSION DOTS.**
It is a cost-effective alternative to stamping and dies. Dot peen metal marking machines allow total freedom and flexibility in **MARKING METAL PLATES** and tags with the ability of dot peening words on the plate surface in any true **WINDOWS-TYPE FONT**, as well as produce **LOGOS** and other **GRAPHICS**.

Stylus

Stamping

Result

Up to 250 plates capacity hoppers:
input & output

CIM
CARD IMAGING MASTER
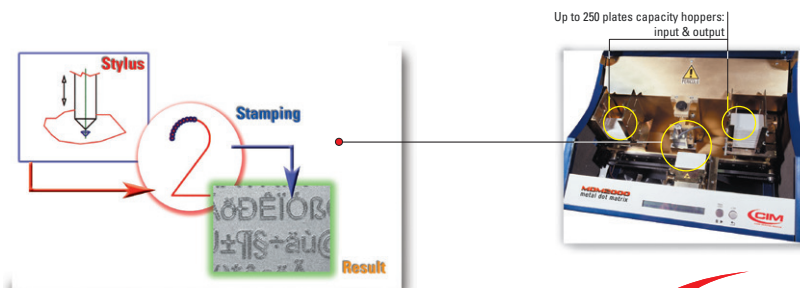
FEATURES AND SPECIFICATIONS

PLATE CAPACITY

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	alluminium, copper, and brass
input hopper	MDM1000: manual feed - Single Access Point MDM2000: up to 250 plates capacity. (Ø 0.4 mm/0.0157 in)
output hopper	MDM1000: manual feed MDM2000: up to 250 plates 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 MDM2000: manages up to 3 different fonts each job
logos	up to 2 at a time, resident in equipment. Max area about 84 cm² / 13 square in
layout 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 AND SOFTWARE

communic. interface	RS232 serial port Isolated USB to RS232 converter
protocols	CIM, Xon-Xoff, MultiEmbosser and Pound-Pound
operating system	**PowerTag** PC application proprietary software compatible with Windows 7/8/10
application software	automatic data field; plate archive; DBIII, DBIV, Excel, MS Access file compatibility; self diagnostics, automatic repetition of faulty plate personalization, resetable and non-resetable 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 characters 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 AND 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.

Widia stylus micro percussion

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.

MDM1000
metal dot matrix

MDM2000
metal dot matrix

C **UL** US
LISTED

RoHS

CE FC

cim-usa.com

CIM
CARD IMAGING MASTER