USED BY:

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

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
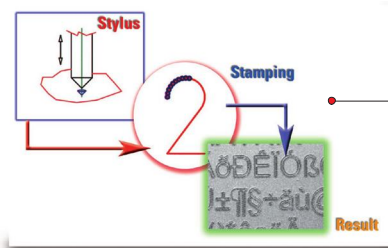
SOFTWARE

SWORD
METAL IDENTITY SOFTWARE

Metal Plate System

METAL DOT MATRIX SERIES
MDM 1000 - 2000

LCD display and front control panel
for technical diagnostics

Emergency stop

Manual input / output
Single access point

THE MOST VERSATILE MARKING
SOLUTION FOR INDUSTRIAL PRODUCT
IDENTIFICATION

MDM2000
metal dot matrix

Stylus

Stamping

Result

Up to 250 plates capacity hoppers:
input & output

CIM
CARD IMAGING MASTER
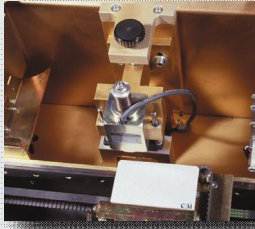
Widia stylus micro percussion

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

ABCDEFGHIJKLMOPQRS

SPETTABILE
DITTA CIM
VIA SERRA 2
CALDERARA
DI RENO
40012 BO

Text 49 characters
Font arial 18 - 6 rows
Standard quality 164 s.
Draft quality 99 s.
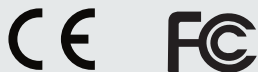
MDM1000
metal dot matrix

MDM2000
metal dot matrix

c(UL)us
LISTED

RoHS

CE FC

TECHNICAL FEATURES

PLATE & FEEDER

dimensions	width: 1.18 - 4.53 in / 30 - 115 mm - only MDM1000 up to 7.092 in / 180 mm
	height: 0.83 - 3.54 in / 21 - 90 mm - only MDM1000 up to 4.334 in / 110 mm
thickness	0.0157 - 0.0354 in / 0.4 - 0.9 mm
materials	aluminium, copper, and brass
input hopper	MDM1000: manual feed - Single Access Point
	MDM2000: up to 250 plates capacity. (0.0157 in / 0.4 mm)
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
logos	up to 2 at a time, resident in equipment. Max area about 13 square in / 84 cm²
layout facilities	fonts and logos can be rotated 90°/180°/270°
stamping area	full plate except for 0.039 in / 1 mm from the top and left/right edges and 0.28 in / 7 mm 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 / XP / Vista / 7
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: 41 - 104 °F / 5 -40 °C
	relative humidity: 30% - 90 % non condensing
dimensions (WxDxH)	MDM1000/MDM2000: 24.8 x 29.1 x 15 in / 630 x 740 x 380 mm
weight	MDM1000 119 lbs / 54 Kg - MDM2000 126 lbs / 57 Kg

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 & 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.

www.metalmarkingmachines.com   T-815-568-4115

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