FEATURES

Dot Peen

Data Matrix

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

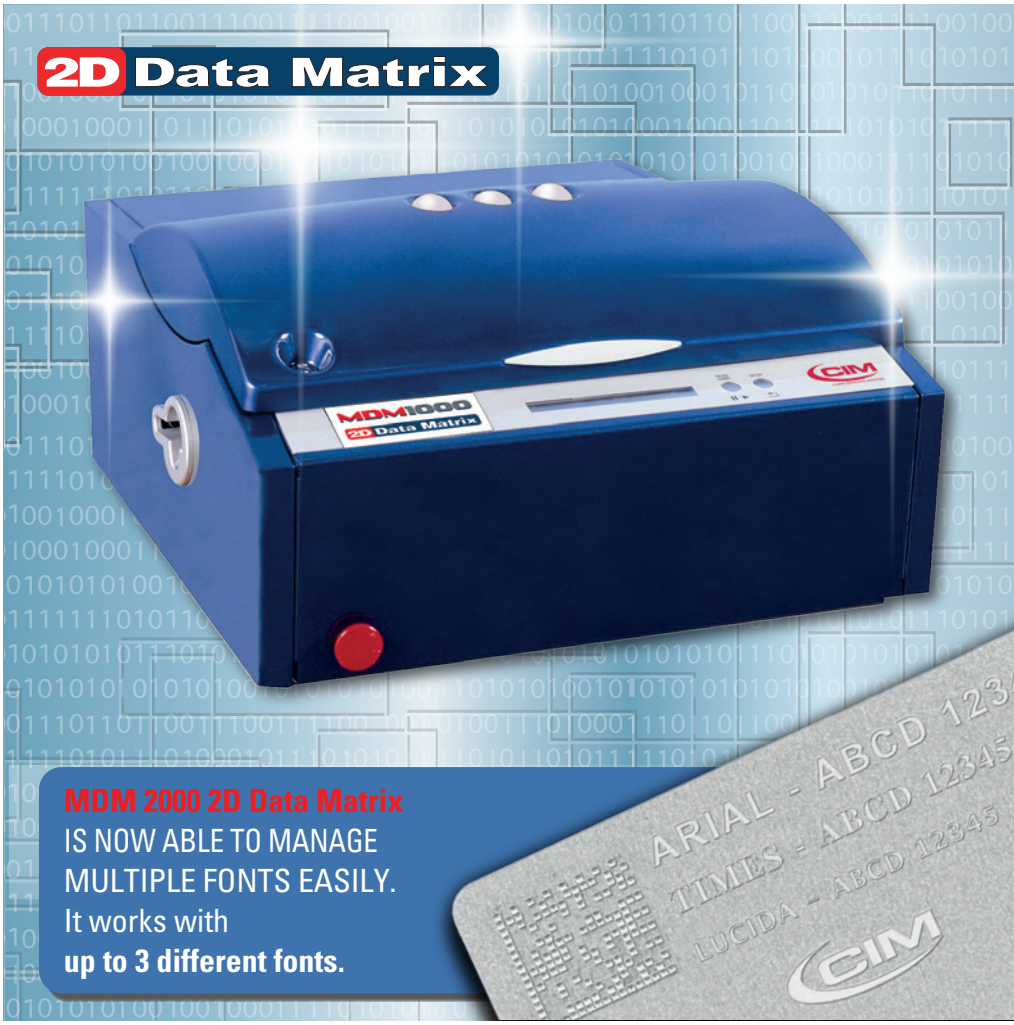
SOFTWARE

SWORD METAL IDENTITY SOFTWARE 2D Data Matrix

Support barcode 2D encodation data
ActiveX Controls for the barcode generation
Hardlock protection key

Metal Plate Systems

METAL DOT MATRIX SERIES
MDM 1000 - 2000
2D DATA MATRIX



DOT PEEN METAL MARKING SYSTEM WITH 2D DATA MATRIX BARCODE

2D DATA MATRIX BARCODE THE GREAT ADVANTAGE OF HAVING A LOT OF INFORMATION ON A SMALL SPACE. PRECISE, PERMANENT AND TAMPER-PROOF MARKING.

- ✔ Ideal for harsh post marking treatment of tags like sandblasting, painting etc.
- ✔ PVC or Mylar tags need to be regularly replaced causing waste of time, identification error and high consumables costs.
- ✔ Perfect for tags which are required to have a long working life and need to be exposed to atmospheric agents.
- ✔ Application is recommended when direct marking of the components or items:
  - affects its mechanical integrity
  - is too difficult to achieve
  - is too costly (laser dot peen)
  - is too time consuming, thus affecting production efficiency

CIM
CARD IMAGING MASTER

FEATURES AND SPECIFICATIONS

PLATE CAPACITY

dimensions	width: 30 ÷ 115 mm / 1.18 ÷ 4.53 in - only MDM1000 2D Data Matrix up to 180 mm / 7.092 in height: 21 ÷ 90 mm / 0.83 ÷ 3.54 in - only MDM1000 2D Data Matrix 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 2D Data Matrix: manual feed - Single Access Point MDM2000 2D Data Matrix: up to 250 plates capacity. (Ø 0.4 mm/0.0157 in)
output hopper	MDM1000 2D Data Matrix: manual feed MDM2000 2D Data Matrix: 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
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
2D embossable area	See table beside (2D ENCODING AREA)

performance

Plate types	Card production time	Production time
18x18: 23 alphanumeric char. data	245" each plate (120" for 2D)	30 cph
16x16: 5 numeric char. data	190" each plate (65" for 2D)	55 cph
14x14: 5 numeric char. data	152" each plate (27" for 2D)	130 cph

COMMUNICATION INTERFACE AND SOFTWARE

communication interface	RS232 serial port
protocols	CIM, Xon-Xoff, MultiEmbosser e Pound-Pound
operating system	Sword PC application proprietary software compatible with Windows 2000/XP/Vista/7
application software	automatic data field; plate archive; DBIII, DBIV, Excel, MS Access file compatibility; self diagnostic, automatic repetition of faulty plate personalization, resetable and non-resetable counters
LCD Edit	via external keyboard; 20 storable formats downlodable
data format	50 fields of 80 characters each (Variable, Fixed data, Counters, etc.)

HARDWARE

power supply	100 - 117 - 220 - 230 o 240 Volt - 50 o 60 Hz
power consumption	100 Watt
operating environment	temperature: 5 ÷ 40° C / 41 ÷ 104 °F relative humidity: 30% ÷ 90% non condensing
dimensions (WxDxH)	MDM1000 2D Data Matrix / MDM2000 2D Data Matrix: 630 x 740 x 380 mm / 24.8 x 29.1 x 15 in
peso	MDM1000 2D Data Matrix - 54 Kg / 119 lbs - MDM2000 2D Data Matrix - 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 imput / near full output hopper plate sensors for continuous production (MDM2000 2D Data Matrix); visual alarm kit for operator alert

VERSATILE The dot peening thecnology makes the **MDM1000 / 2000 2D Data Matrix** 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 2D Data Matrix**) or automatic **(MDM2000 2D Data Matrix)** loading and unloading has never been easier. Equipped with a unique clamp for plates of most dimensions and metals, the METAL DOT MATRIX are deisgned to meet most requirements in metal plate marking.

CIM has developed various command protocols allowing the **MDM1000 / 2000 2D Data Matrix** to easily interface with custom applications.

2D ENCODING AREA

ECC200 BARCODING		
Row & Col.	Nuber Only	Alpha-numeric
10x10	6	3
12x12	10	6
14x14	16	10
16x16	24	16
18x18	36	25
20x20	44	31
22x22	60	43
24x24	72	52
26x26	88	64

**Total area depends on dot size*

2D Data Matrix Barcode Reader
DNR-7500V-00
CIM P/N C7010972

MDM1000 2D Data Matrix

MDM2000 2D Data Matrix

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