

FEATURES

STANDARD



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



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



METAL EMBOSSER SERIES

MDM 1000 - 2000 2D DATA MATRIX



THE MOST VERSATILE MARKING SOLUTION

2D DATA MATRIX BARCODE DURABLE EMBOSSED METAL PLATES

- 4 Ideal for harsh post marking treatment of tags like sanblasting, painting etc.
- 4 PVC or Mylar tags need to be regularly replaced causing lost time, identification error and high consumables costs.
- 4 Tags are required to have a long working life and will be subjected to enviromental degradation
- 4 Application where marking the component or items directly:
 - affect its mechanical integrity
 - is too difficult to achieve
 - is too costly (laser dot peen)
 - too time consuming affecting production efficiency



TECHNICAL FEATURES

2D ENCODING AREA

| ECC200 BARCODING | | |
|------------------|-------------|--------------|
| Row & Col. | Number Only | Alphanumeric |
| 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



RoHS

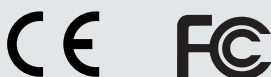


PLATE & FEEDER

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 aluminium, 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

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)

| 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 & SOFTWARE

communication interface RS232 serial port

protocols CIM, Xon-Xoff, MultiEmboss 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 downloadable

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 input / 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 & 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.

YOUR SUPPLY DEPOT LIMITED

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