

## FEATURES

STANDARD

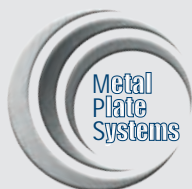


## USED BY:

- MANUFACTURERS OF:
  - APPLIANCES
  - MOTORS
  - AUTOMOTIVE COMPONENTS
  - PUMPS
  - ELEVATORS
  - CRANES
  - FIRE DOORS

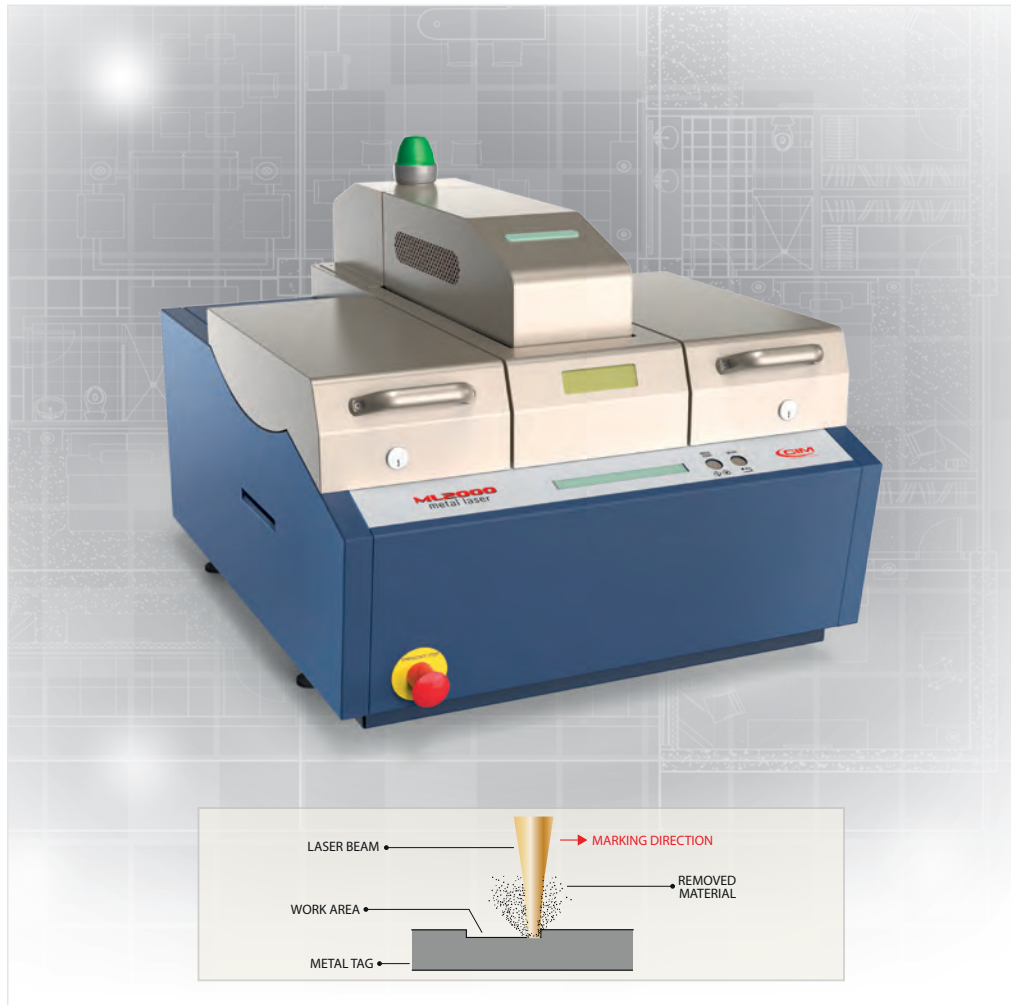
## IDEAL FOR:

- CABLE TAGS
- INVENTORY TAGS
- ASSET CONTROL TAGS
- WORK IN PROGRESS TAGS
- SERIAL NUMBER TAGS



# METAL LASER SERIES

# ML2000



## ML2000 AUTOMATIC LASER MARKING ON METAL TAGS A HIGH DEFINITION, CRISP MARK WITH EXCELLENT CONTRAST

Laser marking systems are commonly used for **PART IDENTIFICATION AND PRODUCT TRACEABILITY INFORMATION** such as serial numbers, date codes, 2D data matrix barcodes, QR codes, 1D barcodes, manufacturing codes, material flow, graphics and logos.

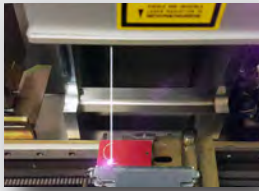
The **ML2000** is designed for efficient marking on steel tags, aluminum tags, anodized aluminum tags and more. The fiber based optical design and rugged mechanical design allows the **ML2000** to operate in harsh industrial environments with maximum uptime. The compact footprint of the **ML2000** makes it easy to integrate into a variety of industrial applications. The energy efficient integrated air-cooling and proven laser design insures low maintenance and ongoing service costs.

The **ML2000** is a fully **AUTOMATIC** system and is equipped with an adjustable tag input hopper which holds up to **250 BLANK TAGS**. The blank tags are automatically moved from the hopper area to the laser marking module. Once laser marking is completed, the tags are placed in an internal FIFO stacker or unloaded using the side eject option.

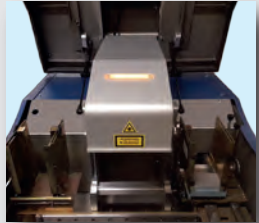
The **ML2000** is a compact, fast and secure solution that is suitable for any manufacturing environment. It offers a level of automation that will help save time, money and energy.



# FEATURES AND SPECIFICATIONS



Laser marking



Laser unit



Metal TAG



Medical alert TAG



Dog TAG

**ML2000**  
metal laser



## PLATE AND FEEDER

### dimensions

width: min. 30 mm (1.18 in) - max. 115 mm (4.53 in)  
height: min. 21 mm ( 0.83 in) - max. 90 mm ( 3.54 in)

### thickness

min. 0.4 ( 0.0157 in) - max. 0,9 mm (0.0354 in)

### materials

stainless steel, aluminum, copper and brass

### load capacity

up to 250 plates (0.4 mm/ 0.0157 in)

### discharge capacity

up to 250 plates capacity (0.4 mm / 0.0157 in)

### performance

it depends on material type and marking area

## COMMUNICATION INTERFACE AND SOFTWARE

### communications interface

serial port RS232

### direct control

CIM, Xon-Xoff, MultiEmbosser e Pound-Pound

### software

PC application software compatible with Windows / XP / Vista / 7 / 8

## HARDWARE

### power supply

100 - 117 - 220 - 230 or 240 Volts - 50 or 60 Hz

### power consumption

100 Watt

### operating environment

5 °C ÷ 40 °C

relative humidity: 30% - 90 % non condensing

### dimensions (WxDxH)

630 x 740 x 575 mm

### weight

73 Kg

## HARDWARE LASER UNIT

### nominal power

6 W ± 5% (@ 50kHz)

### wavelength

1064 nm

### laser source

Q-switched DPSS

### repetition rate range

15 -200 kHz

### pulse width (typ)

20-25 ns@20kHz

### aiming & focus beam

semiconductor laser 635 nm

### interface

USB embedded: USB 2.0 ; RS232 for diagnostic

iMark controller versione: PCIe; RS232 for diagnostic

### i/o extension (iMark configuration only)

4 axis controls (X,Y,Z and rotative axis)

up to 16 digital programmable I/O

### temperature range

operational 15°C to 35°C – Storing -5 to +55 °C

### cooling system

air cooled

### power supply

24VDC/13A

### laser power consumption

typical 200W – Maximum 300W

## VARIOUS

### LCD display

2 lines of 40 characters LCD display for diagnostics and offline operation

### FLASH memory technology

for easy firmware upgrade operation

### other

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; visual alarm kit for operator alert

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