

## 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

### AVAILABLE IN TWO VERSIONS:

- 6 Watt
- 20 Watt

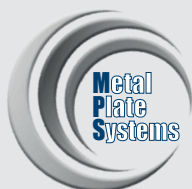
### SOFTWARE:



### SERVICE PROGRAM:

## EASE OF CARE

Provide life-cycle support to ensure that the laser station is always operating at high performance



# METAL LASER SERIES ML2000



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

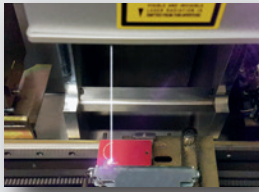
Laser marking systems are commonly used for **PART IDENTIFICATION AND PRODUCT TRACEABILITY INFORMATION** such as serial numbers, data codes, 2D data matrix barcodes, QR codes, 1D barcodes, manufacturing codes, material flow, graphics and logos.

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.

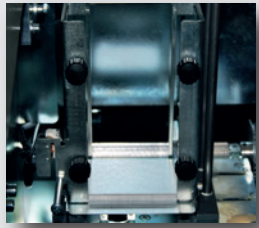
The **ML2000** is a fully **AUTOMATIC** system and is equipped with an adjustable tag input hopper which holds up to **250 BLANK TAGS**. The blank tags are automatically moved from the hopper area to the laser marking module. Once laser marking is completed, the tags are placed in an internal FIFO stacker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

**The ML2000** is available in two version 6 W and 20 W. The new 20 W laser station is able to **modulate the power** in the engraving phase in order to **obtain different shades of gray**.

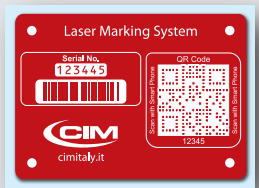




Laser marking



Input Hopper



## ML2000 metal laser



Laser fumes unit for 20W version



# FEATURES AND SPECIFICATIONS

## PLATE AND FEEDER

<b>dimensions</b>	width: min. 30 mm - max. 115 mm height: min. 21 mm - max. 90 mm
<b>thickness</b>	min. 0,4 - max. 0,9 mm
<b>materials</b>	stainless steel, aluminum, copper and brass
<b>load capacity</b>	up to 250 plates (0,4 mm)
<b>discharge capacity</b>	up to 250 plates capacity (0,4 mm)
<b>performance</b>	it depends on material type and marking area

## COMMUNICATION INTERFACE AND SOFTWARE

<b>communications interface</b>	serial port RS232
<b>direct control</b>	CIM, Xon-Xoff, MultiEmbosser e Pound-Pound
<b>software</b>	PC application software Laser Tag One compatible with Windows / XP / Vista / 7 / 8

## HARDWARE

<b>power supply</b>	100 - 117 - 220 - 230 or 240 Volts - 50 or 60 Hz
<b>power consumption</b>	100 Watt
<b>operating environment</b>	5 °C ÷ 40 °C relative humidity: 30% - 90 % non condensing
<b>dimensions (WxDxH)</b>	630 x 740 x 575 mm
<b>weight</b>	73 Kg

## HARDWARE LASER UNIT

	6 Watt Version	20 Watt Version
Nominal power	6 W ± 5% (@ 50kHz)	>20W
Wavelength	1064 nm	1060 - 1080 nm
Laser source	Q - switched DPSS	Pulsed fiber laser
Repetition rate range	15 - 200 kHz	2 - 100 KHz
Pulse width (typ)	20 - 25 ns@20kHz	100 ns
Interface	USB embedded: USB 2.0; RS232 for diagnostic	4 x USB, 3 x Ethernet, 1 x RS232, Digital I/O
i/o extension (imark configuration only)	4 axis controls (X,Y,Z and rotative a axis) I/O	4 axis controls (X,Y, Z and rotative axis) Up to 16 digital programmable I/O
Temperature range	15°C to 35°C – Storing -5 to +55 °C	5°C to 40°C
Cooling system	Air cooled	Air cooled
Power supply	24VDC/13A	100/240 VAC - 50/60 Hz 400W (Max)
Laser power consumption	Typical 200W – Maximum 300W	Maximum 400W

## VARIOUS

<b>laser fumes</b>	Laser fumes extraction/filter unit (optional) - recommended for 20W version
<b>LCD display</b>	2 lines of 40 characters LCD display for diagnostics and offline operation
<b>FLASH memory technology</b>	for easy firmware upgrade operation
<b>other</b>	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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