METAL LASER SERIES

ML2000

FEATURES

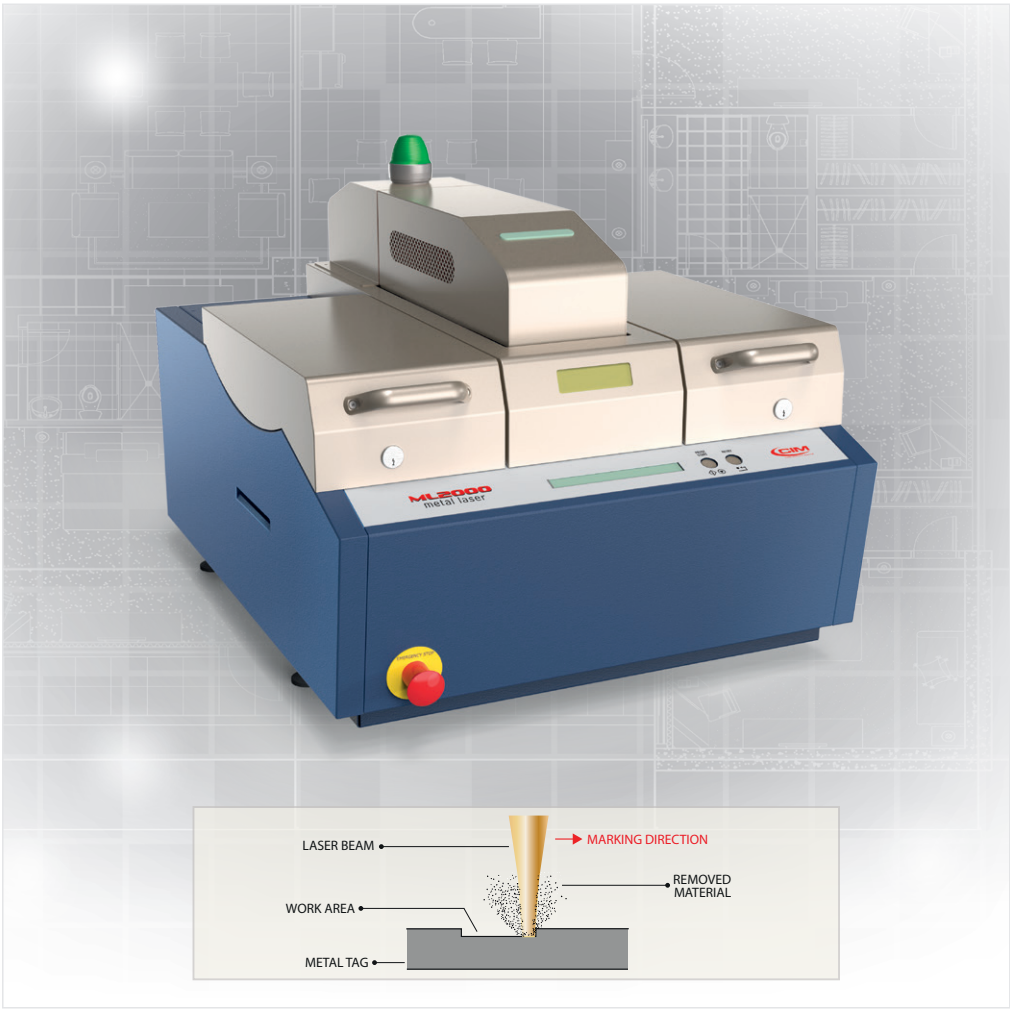
STANDARD

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



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.

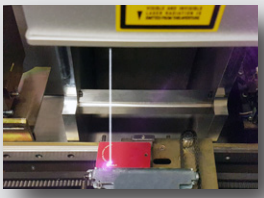
The **ML2000** is designed for efficient marking on steel tags, aluminum tags, anodized aluminum tags and more. The fiber based optical design and rugged mechanical design allows the **ML2000** to operate in harsh industrial environments with maximum uptime. The compact footprint of the **ML2000** makes 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.

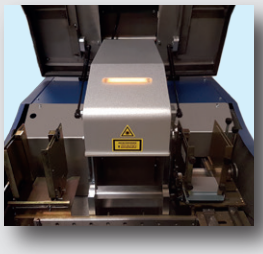
The **ML2000** is a compact, fast and secure solution that is suitable for any manufacturing environment. If offers a level of automation that will help save time, money and energy.

Metal Plate Systems

CIM
CARD IMAGING MASTER



Laser marking



Laser unit

Metal TAG

Medical alert TAG

Dog TAG

ML2000
metal laser

c UL us
LISTED

RoHS

CE FC

FEATURES AND SPECIFICATIONS

PLATE AND FEEDER

dimensions	width: min. 30 mm - max. 115 mm height: min. 21 mm - max. 90 mm
thickness	min. 0,4 - max. 0,9 mm
materials	stainless steel, aluminum, copper and brass
load capacity	up to 250 plates (0,4 mm)
discharge capacity	up to 250 plates capacity (0,4 mm)
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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