FFATURES

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:





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 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.





Laser marking



Input Hopper









Laser fumes unit for 20W version







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 Laser Tag One 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 $5 \,^{\circ}\text{C} \div 40 \,^{\circ}\text{C}$

relative humidity: 30% - 90 % non condensing

dimensions (WxDxH) 630 x 740 x 575 mm

weight 73 Kg

HARDWARE LASER UNIT

HAKDWAKE LASEK UNII		
	6 Watt Version	20 Watt Version
Nominal power	6 W ± 5% (@ 50kHz)	>20W
Wavelength	1064 nm	1050 - 1080 nm
Laser source	Q - switched DPSS	pulsed fiber laser
Repetition rate range	15 - 200 kHz	20 - 100 KHz
Pulse width (typ)	20 - 25 ns@20kHz	80 - 100 ns
Aiming & focus beam	Semiconductor laser 635 nm	Semiconductor laser 635 nm
Interface	USB embedded: USB 2.0; RS232 for diagnostic	4x USB, 1x RS232, Digital I/O
i/o extension (imark configuration only)	4 axis controls (X,Y,Z and rotative a xis) 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 50°C – Storing -10 to +60°C
Cooling system	Air cooled	Forced air
Power supply	24VDC/13A	100/240 VAC - 50/60 Hz 330W (Max)
Laser power consumption	Typical 200W – Maximum 300W	Typical 200W – Maximum 300W

VARIOUS

laser fumes

LCD display FLASH memory technology Laser fumes extraction/filter unit (optional) - recommended for 20W version 2 lines of 40 characters LCD display for diagnostics and offline operation

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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