

LMC S3

LASER MARKING SYSTEM SERIES 3



TRACEABILITY
SERIES

The unit is designed to accurately mark PCB's within a production line or can be used as a stand alone cell. A "flying laser" concept is used which means that the PCB is locked in the marking position while the CO2 laser is moved using servo controlled X-Y axis. The number of markings and their positions are easily programmed in Windows™ based software. An optional integrated inverter is available for double sided marking.





LASER MARKING SYSTEM SERIES 3

STANDARD FEATURES

- > CCD camera for readability check.
- > Three level camera lighting. (brightness)
- > Large marking area.
- > Controlled by industrial PC.
- > Capability to mark text, barcodes, 2D codes and graphics.
- > Conveyor width adjustment using hand crank.
- > Rigid machine structure with large access doors.
- > PCB side clamping.
- > Mechanical PCB lift for constant focal point.
- > Quick product change-over.
- > Selectable by-pass operation.
- > Uninterruptible power supply (UPS).
- > Towerlight display for machine status.
- > CE certified.

OPTIONS

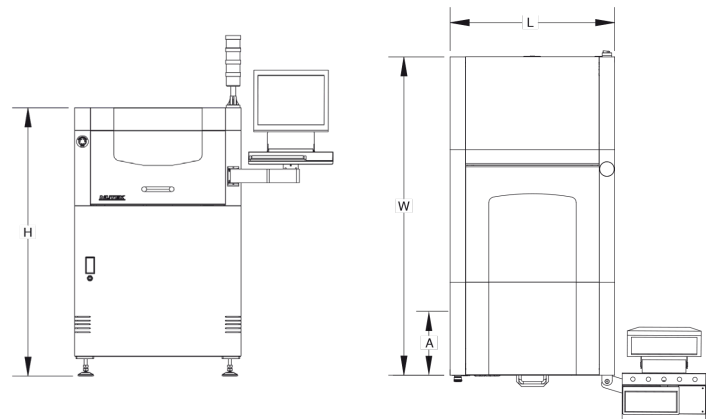
- > Program controlled conveyor width adjustment.
- > PCB orientation check.
- > Fiducial recognition and position alignment.
- > Double-sided marking using integrated inverter.
- > Barcode scanner. (Microscan MS4)
- > Bad marking recognition.
- > Database- and network connection.
- > Fiber laser.
- > Fume extraction unit. (external, 1000 VA max.)
- > Label feeder module.

Other options available on request

GENERAL MACHINE SPECIFICATION

Laser type	CO ₂ , 10 Watt, air cooled
Wave length	10.63 μm
Laser class	Class 4
Housing class	Class 1
Marking area	105 x 105 mm per position, 460 x 460 mm total coverage
Cell size	≥ 0,127 mm (5 mil)
Conveyor type	3 mm ESD edge belt
Conveyor speed	24 m/min
System software	Windows
Network interface	Ethernet
Monitor	21" high-density flatscreen
PCB transfer height	950 mm ± 25 mm*
Component clearance	Top 30 mm, bottom 30 mm*
Conveyor flow direction	Left to right*
Conveyor interface	SMEMA*
Colour	RAL9002*
Power supply	230 VAC/50 Hz/1 Ph
Power consumption	1610 VA max. (fume extraction included)
Air supply	5 bar
Air consumption	20 ltr/min max.
Noise level	Max. 65 dB

** or specify*



MACHINE SIZES

LMCS3

Machine L x W x H (mm)	850 x 1645 x 1380
Weight (Kg)	700
Applicable PCB Length (mm)	80 - 508
Applicable PCB Width (mm)	65 - 460
PCB thickness (mm)	0.6 - 4
Fixed rail to front (A) (mm)	330