# LASER MARKING SYSTEM SERIES 7

**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.*

**NEW**
**- S7 -**

NUTEK (EU)
PCB HANDLING & TRACEABILITY

**CLEVER** AS EVER

# LASER MARKING SYSTEM SERIES 7

TRACEABILITY
SERIES

## STANDARD FEATURES

- NEW Variable position PCB stopper. (mounted on X-Y gantry)
- Scanner Decoding after mark (Keyence SR-X300W)
- NEW Synchronous PCB transfer in/out.
- 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).
- Led-towerlight display for machine status.
- NEW Renewed Human Machine Interface (HMI - 2025)
- CE certified.
- Area marking & Decoding

## OPTIONS

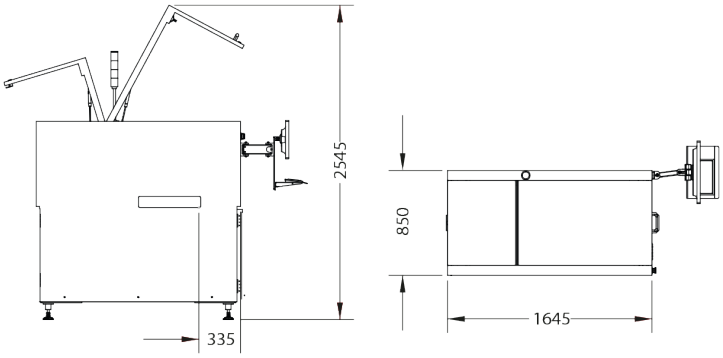
- Program controlled conveyor width adjustment.
- PCB orientation check.
- Fiducial recognition and position alignment.
- Double-sided marking using integrated inverter.
- NEW High speed inverter.
- Bad marking recognition. (x-out)
- Database- and network connection.
- Fiber laser.
- Fume extraction unit. (external, 1000 VA max.)
- Label feeder module.
- 2D Grading
- Offline Programming

*Other options available on request*

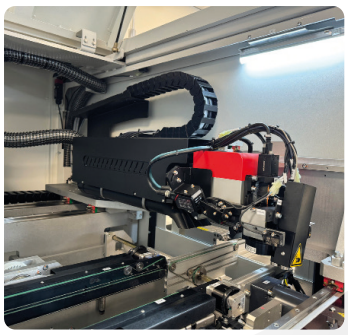
## GENERAL MACHINE SPECIFICATION

| | |
|---|---|
| **Laser type** | CO2, 10 Watt, air cooled |
| **Wave length** | 10.63 µm |
| **Laser class** | Class 4 |
| **Housing class** | Class 1 |
| **Marking area** | 98 x 98 mm per position,<br>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" touchscreen monitor |
| **PCB transfer height** | 950 mm ± 25 mm* |
| **Component clearance** | Top 50 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.<br>(fume extraction included) |
| **Air supply** | 5 bar |
| **Air consumption** | 20 ltr/min max. |
| **Noise level** | Max. 65 dB |

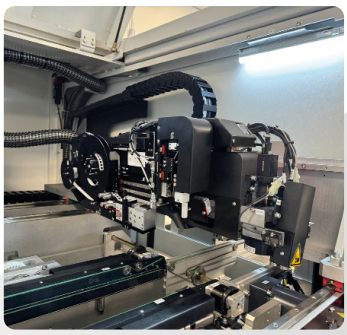
** or specify*




| *MACHINE SIZES* | *LMCS7* |
|---|---|
| Machine L x W x H (mm) | 850 x 1645 x 1600 |
| Weight (Kg) | 800 |
| Applicable PCB Length (mm) | 80 - 508 |
| Applicable PCB Width (mm) | 65 - 460 |
| PCB thickness (mm) | 0.6 - 4 |
| Fixed rail to front (A) (mm) | 335 |



*Laser Marking*



*Optional with Label Feeder Module*

**Note:** *the content of this datasheet is subject to change without notice.*

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