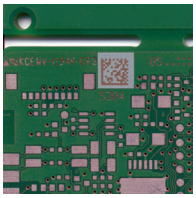
Laser Marking



2D Matrix Code

TS1 - HMI

# SP-Marker II

## Laser Marking System

The SP-Marker II is an in-line Laser Marking machine specifically designed to laser mark PCBs with high positional accuracy and repeatability.

The SP-Marker II is designed for the super fast laser marking of 1D barcodes, 2D Matrix Codes and human readable characters as well as images.

The optional flipunit makes marking on both sides possible within shortest cycletime.

Each marking can be scanned and verified before being releasing the PCB to the next process.

### Key features

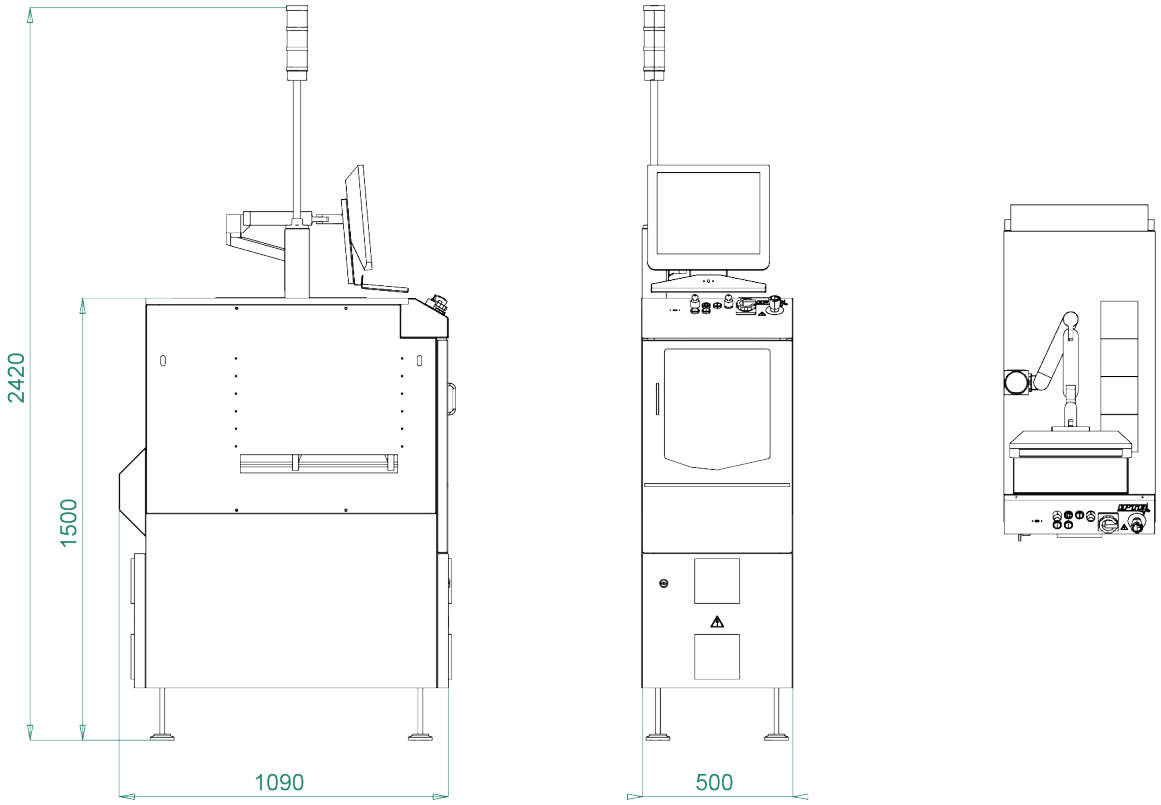
- High speed in-line laser marking
- Fixed laser, fixed transport
- Wide marking field processing
- Smallest spot diameter
- User friendly HMI
- CO2 Laser
- PCB or carrier transport
- Fast PCB exchange time

### Options

- Other field of marking on request
- Automatic width adjustment
- Fume extraction system
- Mix production
- Verify@Mark (code scanner)
- Positioning accuracy ± 0,1 mm
- Network interface with customer database
- Integrated electrical flip unit (max 390 mm PCB length)

# SP-Marker II

Laser Marking System




| | |
|---|---|
| **PCB Specification** | |
| PCB Width: | 50 - 460 mm |
| PCB Length: | 50 - 435 mm |
| PCB Ratio: | 0,8 (length ≥ 0,8 x width) |
| PCB Thickness: | 0,8 - 4,0 mm |
| Component height (top side): | max. 25 mm |
| Component height (bottom side): | max. 25 mm |
| PCB Edge support: | 2,0 - 4,5 mm adjustable |
| PCB Weight: | 1 kg |
| **Process Specification** | |
| Laser: | Standard 30W $CO_2$ laser |
| Field of view: | 380 x 380 mm |
| Field of marking: | 380 x 380 mm |
| Position accuracy: | ± 0,5 mm |
| **Technical Specification** | |
| PCB Exchange time | 3 sec (+ 1,5 sec for flipping) |
| PCB Transport speed: | 300 - 700 mm/sec |
| Transport height: | 930 - 1.000 mm |
| Transport direction: | L ⇒ R, R ⇒ L (to be specified at time of order) |
| Controller: | Omron |
| Energy requirements: | 230V AC, 50 Hz or 208V AC, 60 Hz, max. 750 VA |
| Compressed air: | 6 - 20% bar, according to DIN ISO 8573 3.4.5 |
| Color: | RAL 7035 ESD Safe |
| Dimensions (L x D x H): | 500 x 1.090 x 1.500 mm |
| Weight: | 300 kg |
| Interface: | TS1 |
| Standards: | CE, SMEMA, Laser Class 1 |