



## High speed dual head laser marker

The new GENIUS 1-LD is a high-speed marker, with a dual head laser and cameras for reduced cycle time. It is quick to install and easy to configure. The board is positioned vertically inside the module allowing the two laser heads to mark both sides of a PCB board simultaneously.

FlexLink's new laser marker considerably reduces the cycle time compared to markers with an inverter. The dual head, high speed module eliminates a known bottle neck, increasing throughput and improving the total line efficiency. Vertical PCB marking also minimizes dust issues, improving quality and sellable throughput.

The new laser module includes the latest controls and software package from FlexLink allowing high marking accuracy and less waste with dual fiducial. The software is intuitive and user-friendly.

The laser marker is fully standardized reducing delivery time of spare parts and making maintenance easy.

### **BENEFITS**

- High speed
- Reduced cycle time
- Minimized dust issues, higher quality marking
- Compact, small footprint
- Higher marking accuracy
- Improved board utilization
- Easy to install and configure
- Fast delivery and global support

# Dual head laser marker

The GENIUS 1-LD laser marker is used in applications where products need an identification mark for tracking or recognition on both sides of a PCB. The laser cell can mark on all types of non-metallic surfaces including plastic and FR4 PC Board.

## Technical specification

- Size: 1100 x 1750 x 1800mm (L x W x H)
- Voltage: 230 V, 3 Phase
- Pneumatics: 5 bar (72.5 psi)
- Amperage: 30A
- Antistatic edge belt conveyer
- Motorized width adjustment
- Cycle Time: Varies based on number of marks
- Marking area 500 x 500 mm
- Adjustable conveyer speed: max. 15m/min
- Camera Verification System
- Machine equipped with 2 x 100 mm (4") exhaust port. Recommended airflow about 200 – 250 cfm using a 4" diameter duct.

## Laser specification

- 30 Watt CO2 Laser Marker
- Keyence ML-Z9510W – Class 4 Laser, 10.6 $\mu$ m wavelength
- Marking field: 120 x 120mm (4.72 x 4.72in)
- Software adjustable Z-Axis focus height of  $\pm 21$ mm ( $\pm 0.83$ in); TOC = 0mm (0in)
- Marking position repeatability of  $\pm 0.1$ mm ( $\pm 0.004$ in)
- Marking resolution of 2 $\mu$ m
- Laser scan speed: max 12000 mm/sec
- Barcodes, 2D-Matrix codes, logo images
- Interface via RS-232C / RS-422A / USB2.0
- Cooling method: Forced air cooling
- Laser tube lifetime expectancy 8-10 years

## Options

- Network programmable width adjust
- Heavy duty timing belts and motors to allow up to 10kg (22lbs) product

