



# GLMS Laser Cell







## Ideal for marking of PCB's

GLMS is an Inline Laser Marking machine specifically designed to laser mark PCBs with high positional accuracy and repeatability.

It is capable of handling large format heavy PCBs, ultra-thin and flexible printed circuit board assemblies (PCBA).

The system is designed for High-Speed laser marking of formats ranging from 1D barcodes, 2D Matrix, QR codes and human readable characters as well as Image formats.

With a scanning system inside the GLMS each mark can be verified before being released to down-stream processes.

The GLMS has a large panel capability that can accommodate a single large panel or multiple smaller parts panelized on a single PCB.

The 30 watts CO2 laser wavelength (10.6µm) from Keyence is ideal for PCB applications. The high power effects a long lifetime of the laser source.

#### Features:

- Max. PCB size 550 mm x 570 mm
- Move, Teach and Marking Visual Programming System
- Programmable Z height adjustment
- 1D/2D mark verification by Scanner (Option)
- Class 1 Laser machine enclosure
- Quick product change-over
- Class 4 Laser Class
- Fume extraction (Option)
- Keyence 30 Watts CO2 Laser

- Link to customer's MES Server (Option)
- Internal flipper system for double sided marking
- Barcode, 2D codes, text and graphics capable
- SMEMA connection
- Programmable conveyor width adjustment
- Uninterruptable Power Supply (Option)
- ESD Edge belt conveyor
- Dual Lane (Option)







#### **Specifications**

**Positioning System** 

Configuration X and Y axis

Motors Two axis AC brushless servo motors

Repeatability  $\pm 20 \mu m$ Resolution  $\pm 10 \mu m$ 

Work station

PCB Positioning Pneumatic stopper

Panel Location Located by tooling holes or edges of PCB 550mm x 570mm – single side marking 450 mm x 400 mm – double side marking

Panel Thickness 0,8 mm - 4,0 mm

Component height top 30 mm Component height bottom 30 mm

**Laser System** 

Laser Type 30-Watt Keyence CO<sub>2</sub> Laser (class 4)

Cooling system Ambient Air cooled (standard)

Guide Laser Red Laser Pointer
Marking FOV 120 mm x 120 mm

**Marking Formats** 

1D Barcode (Code39, Code128, ITF, 2of5, NW7, JAN)

2D Code (QR Code, Micro QR Code, ECC200 DataMatrix, GS1 DataMatrix)

DataBar (GS1 DataBar Truncated, Stacked and Limited) Logo Images (CAD Data, BMP/JPEG/PNG/TIF formats)

**Vision System** 

Video Camera High resolution CCD video camera

Scanner System

Decoder Vision System and Scanner

Conveyor

Edge Clearance 3 mm Max. payload 4 kg

Conveyor width Auto adjust (programmable)
Conveyor speed 600 mm/sec. (minimum)

Conveyor flipper yes

**Safety Features** 

"E-Stops", Laser stop, laser light protection, servo overload

protection, enclosed work area

System dimensions, weight & utilities

Dimensions (W/D/H) 820 mm x 1800 mm x 1550 mm

Weight 600 kg Power supply 208 – 240 volts

Air supply 6 bar

### **Available Options:**

- Fiducial Option
- Link to customer's MES-Server
- PCB Flow direction according to customer's specifications
- Other Laser wavelength available
- Internal flipper system for double sided marking
- Fume extraction
- Dual lane
- Uninterruptable Power Supply (Option)



## Our Product Portfolio



Label Feeder, also for Label/ Laser Marker special parts



and labels



Tape Feeder und accessories



Tray Handler / Reject Parts Conveyor



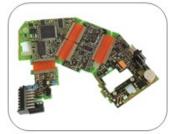
Manual Taping Systems



Automatic Packing Systems



Optical Bonding



Thermal Bonding



Place-N-Bond Underfilm



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Depaneling Systems

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