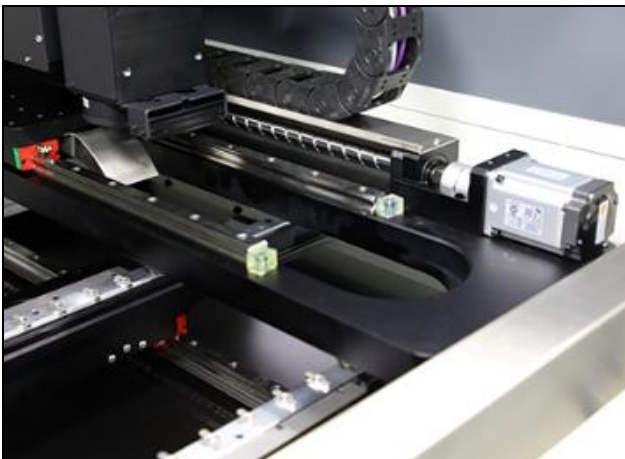## SMT Laser Marking Machine

This unit is used to mark text, barcode, 2D code & graphic on PCB, ETA laser marking machine is mainly used in PCB industry. It can connect SMT assembly line seamlessly and support online data transmission and information return of MES system.

Features:

1. The performance of the CO_2 laser, fiber laser, green laser and UV laser is stable.

2. High speed vibrating mirror is adopted,high precision,high speed,and performance is stable.

3. CCD positioning is fast and accurate, and can be automatically recognized after marking.

4. The software interface is humanized, the operation is simple and easy to learn, and the editing function is powerful.

5. Automatically read the two dimensional code and save the data.Automatically record and alarm when it is unable to read.

6. Compared with ordinary printing, no consumables, environmental pollution free, maintenance free.

7. It has the function of anti reprinting data to avoid repeated marking of information.

8. It can be seamlessly connected with SMT line and MES system.

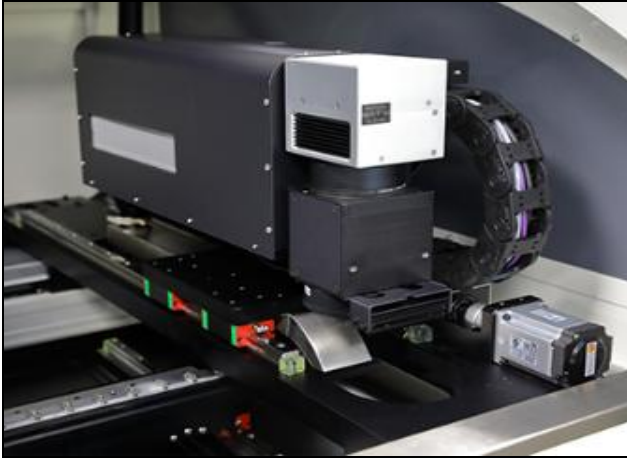9. Offline and online compatible.

Driving System

Japanese drive and motion system is adopted to ensure high precision and stability of machine operation. XY axis motion design improves work efficiency and is easy to maintain.

Control system

PLC and motion control card drive, high-quality brand to ensure the stability of the machine operation, the overall compliance with safety standards, easy to maintain and repair.

Mark system

Different types of lasers can be selected, CCD automatic identification detection, bad mark function, and visual correction to deal with FPC expansion and contraction

Transport system

The unique belt conveyor system can effectively prevent stuck pcb. The motor controls the speed and the stop position is precise. PCB entry and exit directions are freely available.

Application:

Materials List：

No.	Item	Brand	Original
1	Ball screw	THK	Japan
2	Linear Guideway	THK	Japan
3	Servomotor& driver	Panasonic	Japan
4	Sensor	OMRON, LEUCE, KEYENCE	Japan
5	Bearing	NSK	Japan
6	Laser(Green)	ETA	China
7	CCD Camera	SENTECH	Japan
8	Software	ETA	China
9	Switch	SMC, IDEC	Japan
10	Soft Cable	IGUS	Gemany
11	Tanks chain	IGUS	Gemany

Standard Accessories:

1	Operation Software	1 set
2	Cleaning Filter	1 set
3	Pcb Support Pin	15 pcs

4	Keyboard/Mouse	1 set
5	Fuse	1 pcs
6	Relay	2 pcs
7	Manual	1 book
8	Tool Case	1 set

* Attachments may change with product upgrade. If different, please follow the new list.

Specification:

Item	ETA-400	ETA-510
Laser Type	UV laser,Green laser,Fiber laser,CO2 laser	
Wave Length	UV laser:355nm, Green laser:532nm, Fiber laser:1064nm, CO2 laser:10640nm	
Laser Power	UV laser:3W(5W Option), Green laser:7W, Fiber laser:20W, CO2 laser:30W	
Laser Z-axis Lifting	Manual (Automatic is Option)	
PCB Flip Function	Inside PCB Flip	N/A(Outside Fliper)
PCB Size	<L400mm * W320mm	<L510mm * W460mm
Marking Range	<380mm*320mm	<460mm*420mm
PCB Thickness	0.5mm-6mm	
Marking Speed	<7000mm/s	
Marking Precision	±0.05mm	
Top Surface Height of PCB	<30mm	
Bottom Surface Height of PCB	<30mm	
Applicable Product	QR code,PCB ink,ink,ink and other green blue ink;copper,aluminum etc..	
Position System	CCD+MARK	
Operation Mode	Laser XY Movement	
One Dimensional Code Type	Code 39, Code 25, Code 93, Code 128, EAN-13, EAN-8, ISBN, etc.	
Two Dimensional Code Type	Datamatrix, QR Code, micro QR Code, PDF417, Code 49, Code 16K, etc.	
Two Dimensional Code Size	1.5mm * 1.5mm ~ 10mm * 10mm(The minimum size depends on the type of laser)	
Character Type	TrueType JSF, SHX, DMF fonts	
Minimum Character Height	0.1mm ~0.4mm	
File Format	DXF, PLT, Excel, TXT	
Positioning Function	Support automatic photographing and 2, 3, and 4 point positioning	
Reading Code Function	Automatically read two-dimensional code and save data, automatically record and alarm when it is unable to read.	
System Access	Can be interconnected with ERP/MES/SAP and other systems to automatically obtain information about the number of work single, product batch, material code, name specification and so on and automatically code the code	
Conveyor Speed	0 ~ 100000mm/min	
Power	AC220V/50Hz, Total power: 2500W	
Air Pressure	0.5~0.6Mpa	
Body Size	L800 *W1550 *H1500 mm	L910 *W1550 *H1500 mm

Weight	700Kg	750Kg
Option	MES System, KEYENCE Code Reader, Laser Z-axis Automatic Lifting	

Customer：

Case:

Thanks for choosing ETA.

ETA looks forward to win-win cooperation.

Thank you.