

**I.C.T SMT Laser Marking Machine**

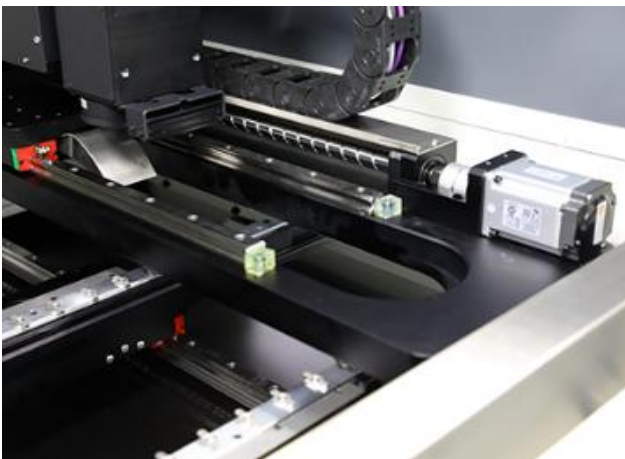


**Introduce:**

This unit is used to mark text, barcode, 2D code & graphic on PCB, I.C.T 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<sub>2</sub> 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.



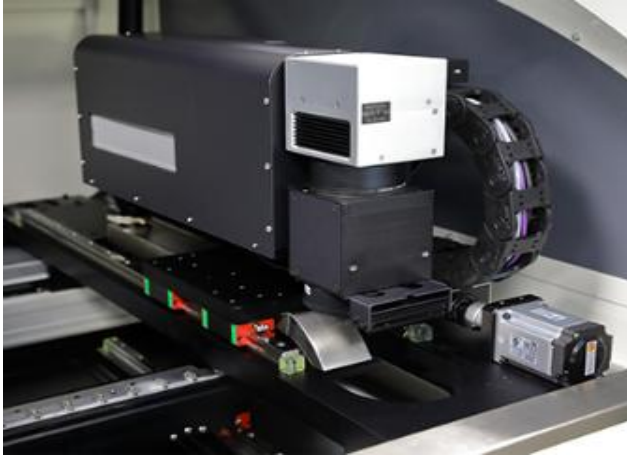
Driving System

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)	I.C.T	China
7	CCD Camera	SENTECH	Japan
8	Software	I.C.T	China
9	Switch	SMC, IDEC	Japan
10	Soft Cable	IGUS	Germany
11	Tanks chain	IGUS	Germany

**Standard Accessories:**

No.	Item	Quantity
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	I.C.T-400	I.C.T-460	I.C.T-510	I.C.T-510L
Photo				
Laser Type	UV laser, Green laser, Fiber laser, CO <sub>2</sub> laser			
Wave Length	UV laser: 355nm, Green laser: 532nm, Fiber laser: 1064nm, CO <sub>2</sub> laser: 10600nm			
Laser Power	UV laser: 3W (5W/10W Option), Green laser: 7W, Fiber laser: 20W, CO <sub>2</sub> laser: 30W			
Laser Z-axis Lifting	Automatic			
PCB Flip Function	Inside PCB Flipper	Inside PCB Flipper	N/A (Outside Flipper)	N/A (Outside Flipper)
PCB Size	<L380*W380mm	<L510*W450mm	<L510*W400mm	<L510*W460mm
Marking Range	<280*380mm	<460*450mm	<430*400mm	<510*460mm
PCB Thickness	0.5-5mm		0.5-10mm	
Marking Speed	<7000mm/s		<6000mm/s	
Marking Precision	±0.05mm			
Top Surface Height of PCB	<25mm			
Bottom Surface Height of PCB	<20mm			
Applicable Product	QR code, PCB ink, and other green blue ink; copper, aluminum, etc.			
Position System	CCD+MARK			
Operation Mode	Laser X/Y 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	1.5*1.5mm~20*20mm (The mini size depends on the type of laser)			

Character Type	TrueType, JSF, SHX, DMF fonts			
Minimum Character Height	0.1~0.4mm			
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	0~4500mm/min			
Power	AC220V/50Hz, Total power: 3000W			
Air Pressure	0.5~0.6Mpa			
Body Size	L800*W1600*H1550mm	L980*W1790*H1680mm	L900*W1600*H1550mm	L1050*W1470*H1450mm
Weight	700Kg	800Kg	750Kg	700Kg
Option	MES System, KEYENCE Code Reader			

\* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

**YouTube Video Link:**

[https://youtu.be/KIFuPY\\_sjsw](https://youtu.be/KIFuPY_sjsw) I.C.T-400&I.C.T-460 Inside PCB Flipper

<https://youtu.be/gswAZLPq0sw> I.C.T-510

**Thanks for choosing I.C.T.**  
**I.C.T looks forward to win-win cooperation.**  
**Thank you.**