SOUTHERN MACHINERY

PCB Assembly Line before printing

Plan B

Bare Board Vacuum Loader	laser marking	0.5 M Conveyor	PCB cleaning	0.5 M Conveyor	PCB unloader (stacker)
750mm	1000mm	500mm	650mm	500mm	600mm

Line length:4000mm

SOUTHERN MACHINERY

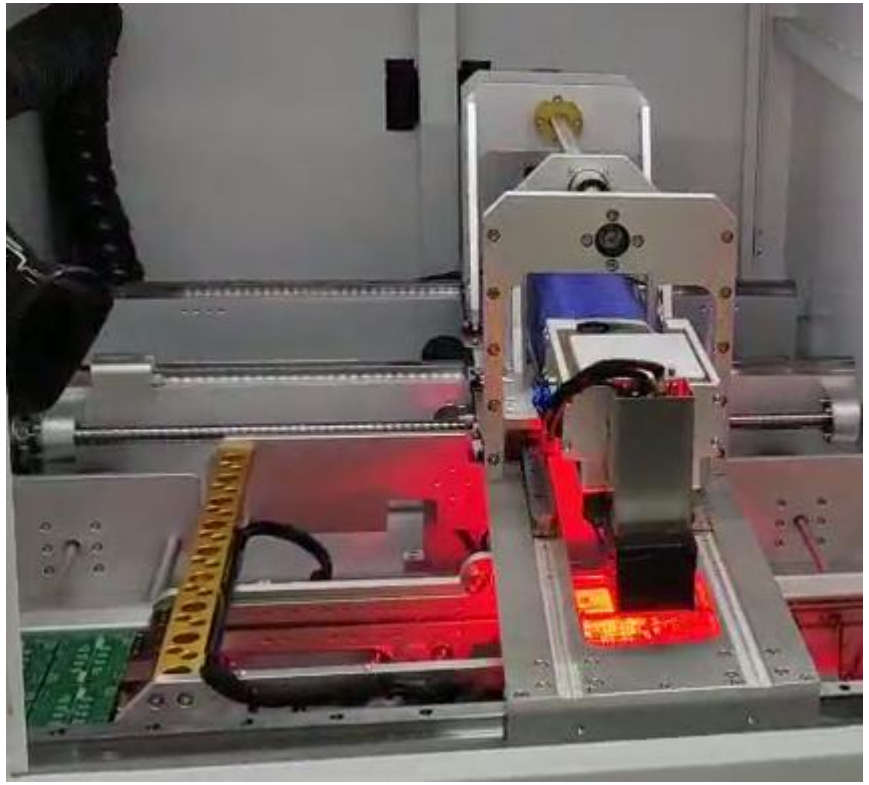
Automatic Laser Making marking

--PCB reversal system **S-400T**

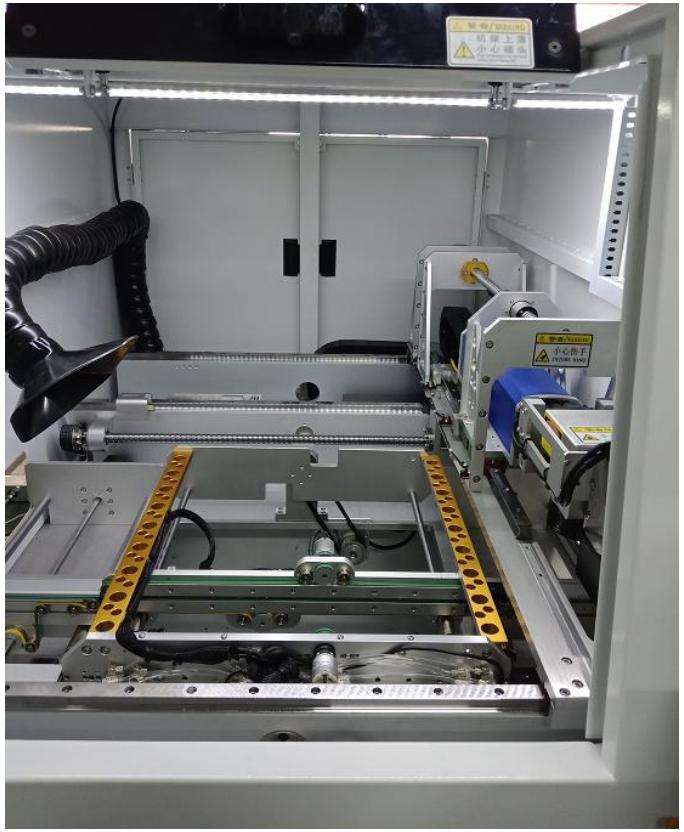
Features:
1. Optional configuration of CO2/FAYB/GR/UV laser engraving system, with precision positioning. CCD+MARK precise positioning
2. It can access MES, shopflow and IMS system.
3. Supporting the printing of various types of PCB, FPC, metal shielding cover and other different material surfaces.
4. With PCB reversal system,can carve double side(support height difference carving)

Visual system, XY platform

-CCD Mark Point Positioning System
-CCD Online Bar Code Reading
-Quality Analysis of CCD Bar Code

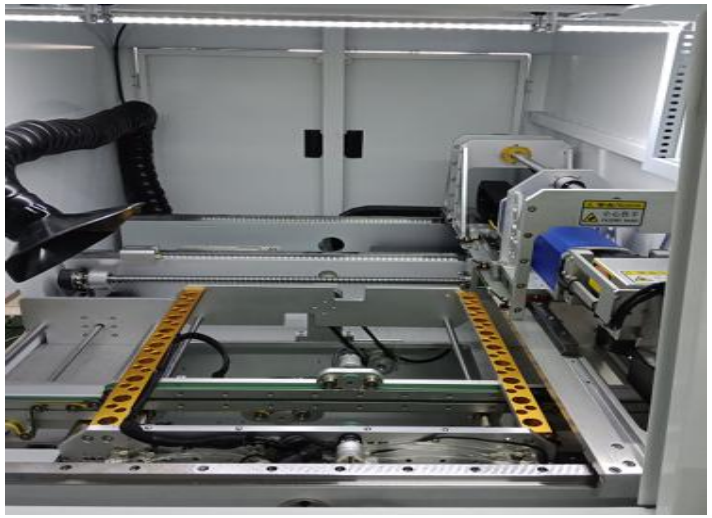


-X and Y axis servo direct drive,
repeat accuracy± 0.02mm

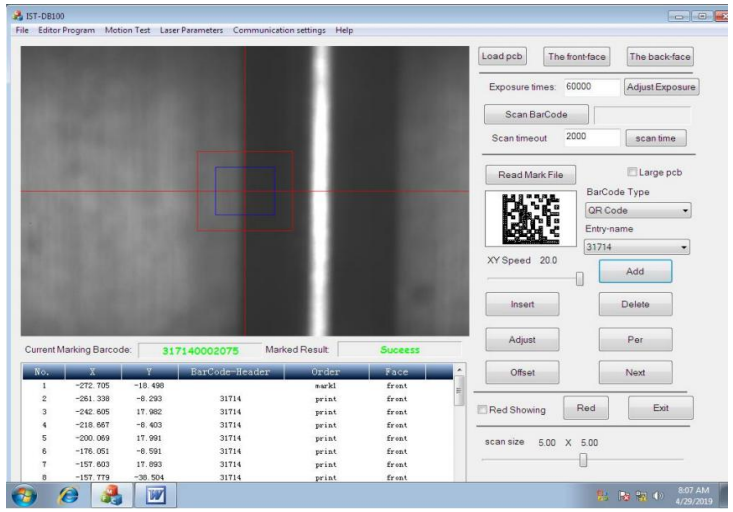


SOUTHERN MACHINERY

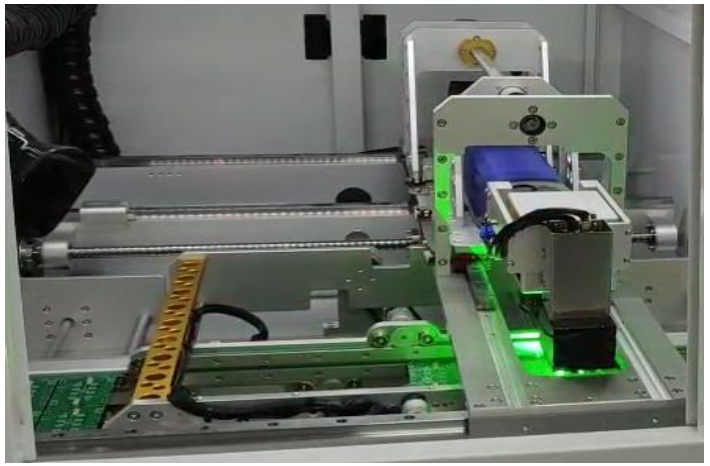
Small intelligent online barcode management system carving



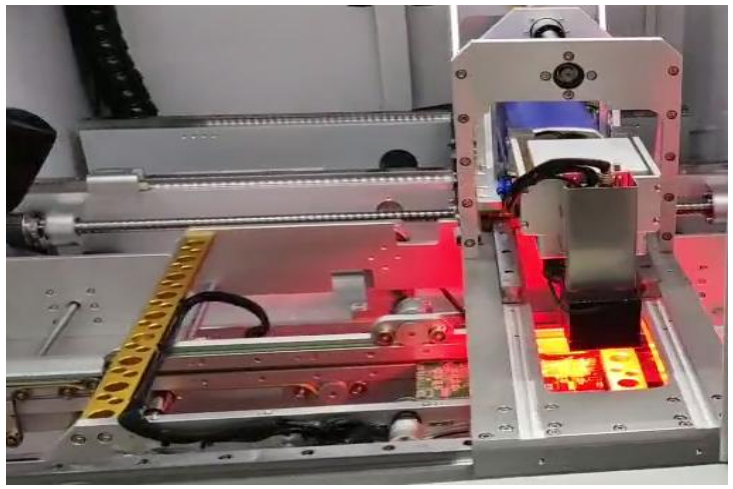
Reversal PCB System inside ,actually use the duplex function



English Operation Interface

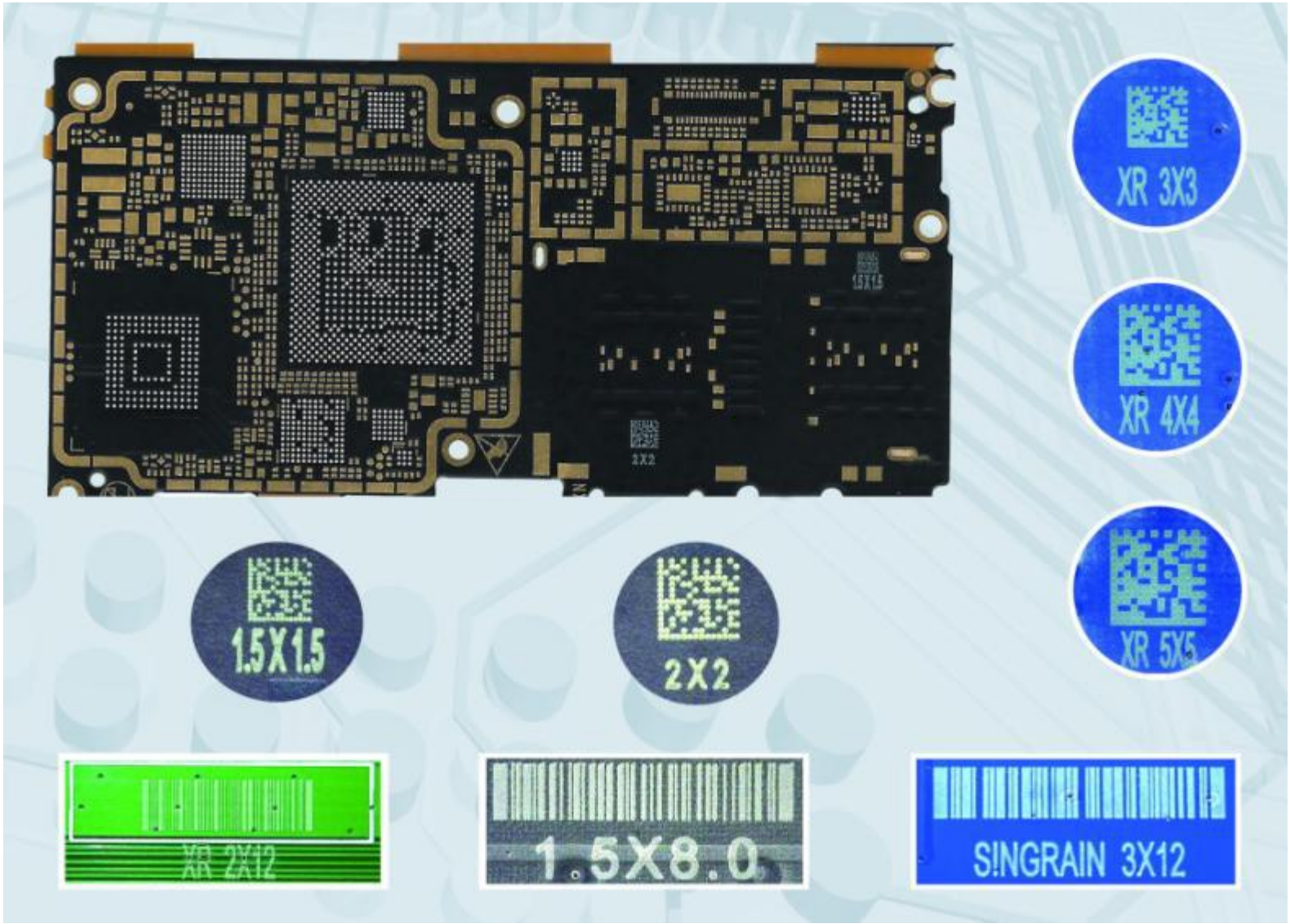


Support plate and the plate up pressure



CCD reader and orientation mark system

Barcode carving effect



SOUTHERN MACHINERY

Customer's Applicance

SOUTHERN MACHINERY

Specification

Model: S-400T
Engraved type: Double side marking (with PCB reversal system)
Control system:Window 7 + Singrain software
System access：SHOPFLOW,IMS,EMS,customization, etc，Intelligent management system
Wrong material recognition: the opposite/reverse/wrong board recognition
Badmark recognize function:Option (Automatically recognize “X” board,not carving)
Conveyor width adjustment: automatic adjustment
Position system ： CCD+Mark
Work method: Laser move
Laser type: CO2/FAYB/GR/UV
Online reading code function：Yes
PCB size：min 50*80mm/max 450*400mm
Engraved size:70 *70 mm (Selectional)
Engraved application area size:1D: 2*6mm/ 2D:1.5*1.5mm
Control system:PC + shaft card+servo motor
Conveyor direction: L-R/R-L (optional)
Conveyor height:900±20 mm
PCB thickness: 0.8-C4mm
PCB surface through height : up 18mm/ down 18mm
Bar code level analysis system：Option
Power supply: AC220V 16A 50/60HZ
Air supply:≥0.5Mpa
Communication: SMEMA
Dimension(L*W*H): 1000*1600*1700mm
Weight:700KG

Laser specifications				
	CO2	FAYB	GR	UV
Wavelength	10.6μm	1064nm	535nm	355nm
Laser power	10W/20W/30W	10W/20W/30W	10W/8W/5W	8W/5W/3W
Service Life(just for refer)	2K-4K hours	100K hours	100 K hours	100 K hours
Printing Angle	0-360°	0-360°	0-360°	0-360°
Focal length	70mm/110mm/190mm			
Corresponding linear velocity	<120m/min			
Bar code type	Data Matrix/CODE39/CODE128/ITF/NW-7/JAN(EAN)/UPC/RSS-14(GS1 DataBar)			
Cooling method	Strong cold wind			
Environment temperature	0-40℃，must no dew,no ice			
Environment humidity	35-85%RH ,must no dew,no ice			

bar code , 2D code sample

Name	PDF417	Data Matrix (ECC200)	Maxi Code	QR Code	Veri Code
Sample					

Answer your confusion

1 **Q:Bar code according to the requirements of the process need to wash flux immersion, and wave soldering high temperature operation, whether it is not fuzzy, still easy to read in?**

A：For the bar code of laser engraving, we have done tests according to the actual production situation of the production line. Such as: silk printing network problems cause need to wash the plate, fingerprint pollution and high temperature furnace, etc., quality and read no larger effect on the bar code.

2 **Q:Bar code needs to be resistant to DI water ultrasonic cleaning process, and the handwriting is clear to facilitate the barcode gun cleaning can meet?**

A：For the bar code of laser engraving, we have done tests according to the actual production situation of the production line. Such as: silk printing network problems cause need to wash the plate, fingerprint pollution and high temperature furnace, etc., quality and read no larger effect on the bar code.

3 **Q:What's the UPH per hour?**

A：It need to be based on the size of the board and each board required to imprint the number of bar code to determine. For example: PCB is 330*250mm, if each board need to engrave 1 2D code,
Then input is :3-4s FDMARK:1s,
Engraved time:0.5s　Check：1s
Total：5-7s/pcs　　About：600pcs/hurs

SOUTHERN MACHINERY

WELCOME INQUIRY

Please visit www.smthelp.com

Find us more https://www.facebook.com/autoinsertion

Know more our team https://cn.linkedin.com/in/smtsupplier

Welcome to our factory in Shenzhen China

See more machine working video, please Youtube Auto Insertion

Google Auto+insertion, to get more informations

Looking forward to your email shaoyong@smthelp.com