I.C.T PCBA Online Laser Cutting Machine LCO-350

Introduction:

LCO-350 is mainly used in sapphire scribing, precision metal, camera module, PCB, VCM, FPC, SD card, QFN, BGA and other microelectronics industries.
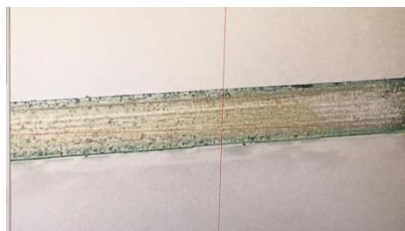
Features:

1. With automatic focusing function to avoid manual focusing positioning deviation;

2. The cutting software is easy to learn and comes with graphics editing functions, including inward shrinkage, outward expansion, size modification and adjustment, and graphic editing of cutting points;

3. With dynamic zoom function: according to the thickness of the customer's product, the number of times of falling layer by layer can be realized when the board is divided, ensuring that the focal length is on the product cutting;

4. With CCD automatic positioning, automatic calculation of expansion and contraction compensation function;

5. It has three-color light source, which can be adjusted to accurately identify the PCBA optical point and locate the position of the sub-board;

6. Equipped with a CCD that can read the QR code alone, to achieve MES data upload 1*1mm~6*6mm, and the code reading length is 19 digits;

7. The transmission height of the equipment can be adjusted by 900±50mm, and the track length is preferably 1000mm;

8. Comes with a laser chiller, equipped with a dust extraction system (automatic vacuum adsorption + laser dust removal);

9. Equipment running accuracy ±0.005mm, CPK>1.33, sub-board accuracy ±0.025mm, processing capacity T≤1.6mm;

10. In line with the SMT anti-static standard, the product must be made of anti-static material within 30cm;

11. The safety door interlocking mechanism is configured, the safety door cannot be opened when the equipment is running, and the equipment cannot be operated after the door is opened. It is equipped with a leakage protector;

12. According to the customer's products, the fixture is actually customized and matched one-to-one, greatly improving efficiency and output.
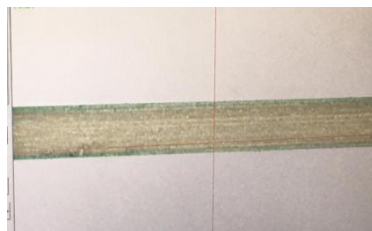
Cutting Renderings:

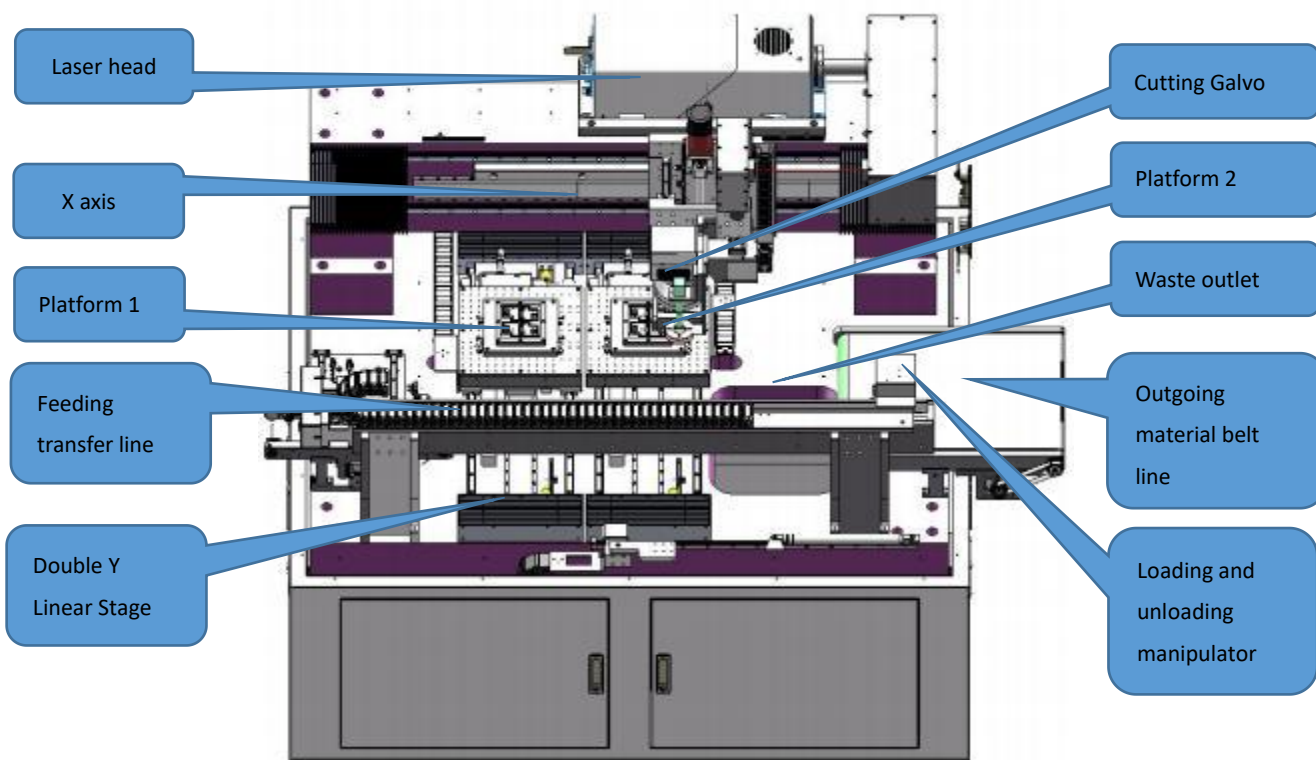5G communication PCB board and fingerprint module

Velocity Cut Micrograph

Quality Cut Micrograph

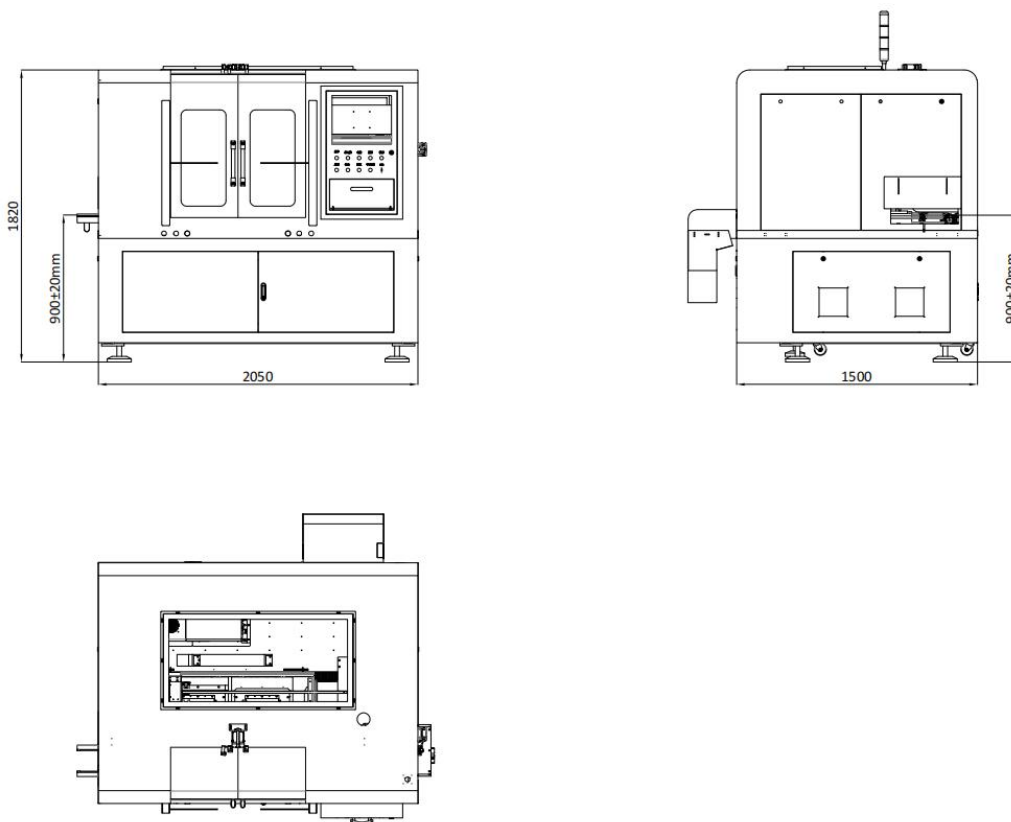Smart wearable PCB cutting renderings

Machine Structure:

Laser head

X axis

Platform 1

Feeding transfer line

Double Y Linear Stage

Cutting Galvo

Platform 2

Waste outlet

Outgoing material belt line

Loading and unloading manipulator

Material List:

No.	Item	Brand	Original
1	Laser transmitter	Lightwave-35W Green Laser	America
2	Galvanometer system	SCANLAB	Germany
3	F-0 mirror	Wavelength-Tech	Singapore
4	CCD Camera	COGNEX/HIKVISION	America/China
5	Software	I.C.T	China
6	Platform	THK	Japan

Specification:

Item	LCO-350
Laser Type	Green laser
Laser Power	Green laser: 35W
Platform Range	300*300mm, double table

Adapt to Product Thickness	Max 1.5mm
Maximum Speed of Platform	1000m/s
Maximum Cutting Speed	≥200mm/s
Positioning Accuracy	±0.005mm
Repeatability	±0.005mm
Cutting Accuracy	±0.025mm
Power	Standard: AC380V (Option: AC220V/AC110V), 50/60HZ, 3KW
Weight	3200KG
Dimensions	L1600*W1300*H1800mm

Dimensions:

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

Thanks for choosing I.C.T.

I.C.T looks forward to win-win cooperation.

Thank you.