

R-650A Inline Multi-function Router Machine Introduction



R-650A Introduction

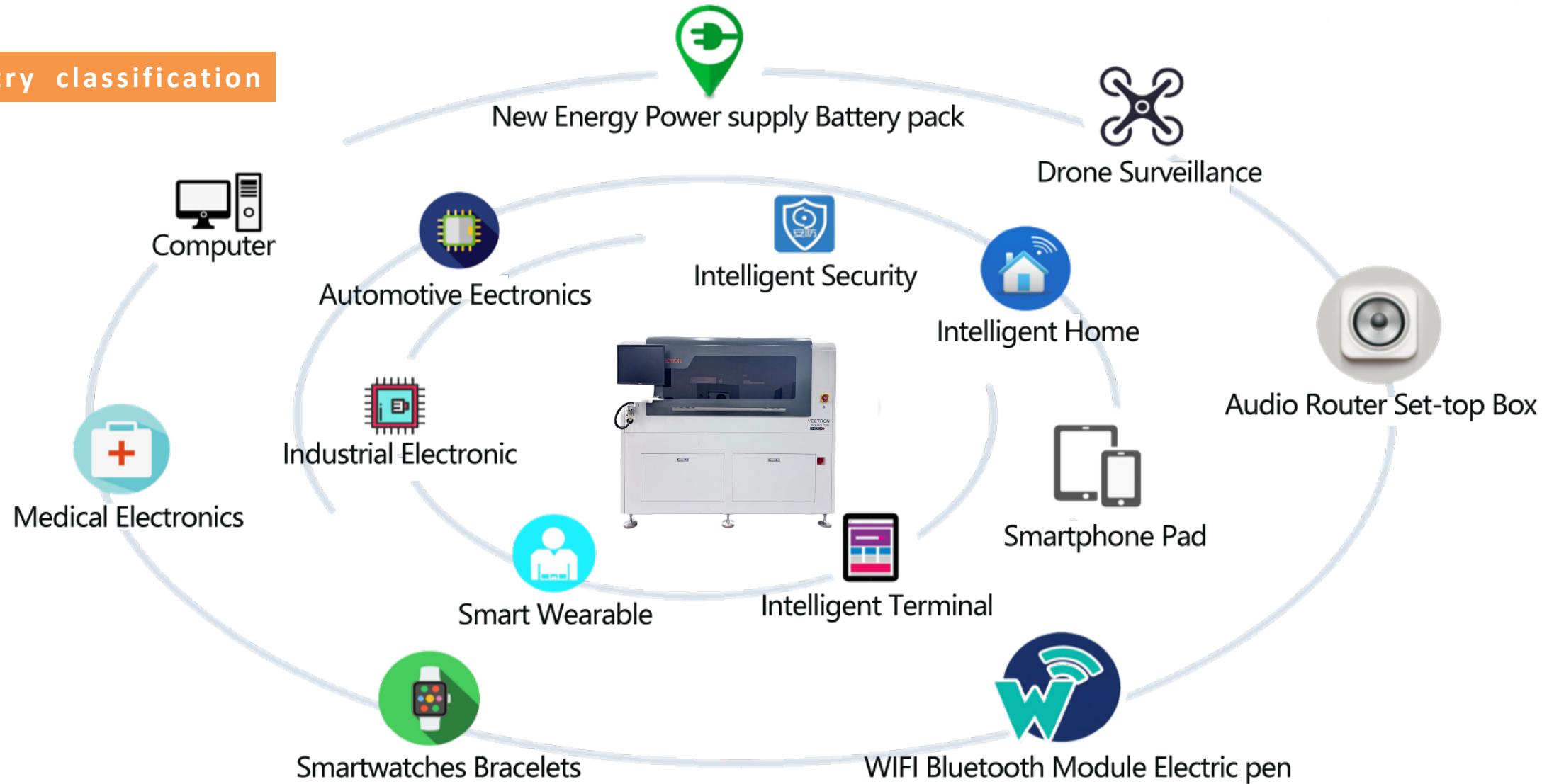
Product Overview

1. Equipped with a high-speed CCD vision automatic correction system, significantly improving cutting accuracy and operational efficiency.
2. Adopts a high-speed spindle, providing low cutting stress, high precision, and suitability for circuit boards of any shape.
3. Dual-station high-efficiency fully automatic depaneling, capable of executing multiple product types simultaneously, improving operational efficiency.
4. Patented "dust collection device" with low noise, high efficiency, easy cleaning and maintenance, and strong suction without dust dispersion.
5. Operating System: Utilizes DELL brand computers with Microsoft-authorized genuine Windows 10 operating system.
6. Software: Custom-developed control system by Vectron, supporting unlimited upgrades.



R-650A Application

Industry classification



Machine features

Basic functions

1. User Permissions
2. Setting board thickness, milling cutter specifications, lifespan, and fixture height
3. Alignment and point correction
4. Editing cutting programs
5. Simulating cutting paths
6. Setting milling cutter operation height
7. Center alignment for milling cutter drilling
8. Environmental, operational, and permission settings
9. Reset



Machine features

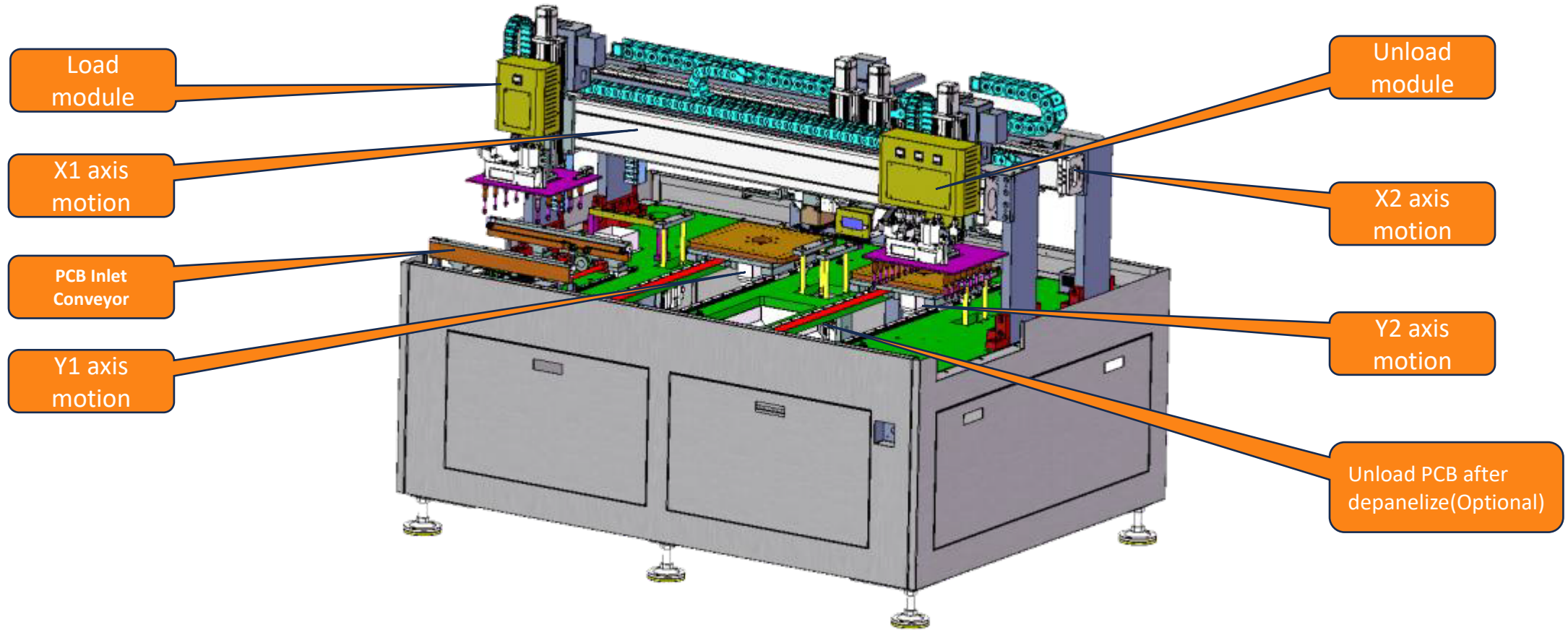
SPECIAL FEATURES

1. **Milling Cutter Detection:** Equipped with functions for detecting broken blades, sliding blades, and incorrect installation of the milling cutter.
2. **Full Board Scanning Function:** After scanning the entire PCB, the cutting path can be quickly modified and edited, improving programming efficiency by 30%.
3. **Barcode Reading:** Automatically reads barcodes to achieve data traceability.
4. **Automatic Program Retrieval Function:** Automatically retrieves the depaneling program by reading the barcode on the PCBA, eliminating the need for re-editing.
5. **Defective Product Detection Function:** Using a CCD camera with software algorithms, it can perform full or sample inspections of products after cutting.(Optional)
6. **X Mark Identification Function:** Automatically detects the "X" mark on defective incoming PCBs or interfaces with the MES system to prevent defective boards from being processed, thereby improving depaneling efficiency.(Optional)
7. **MES connect** (Optional)



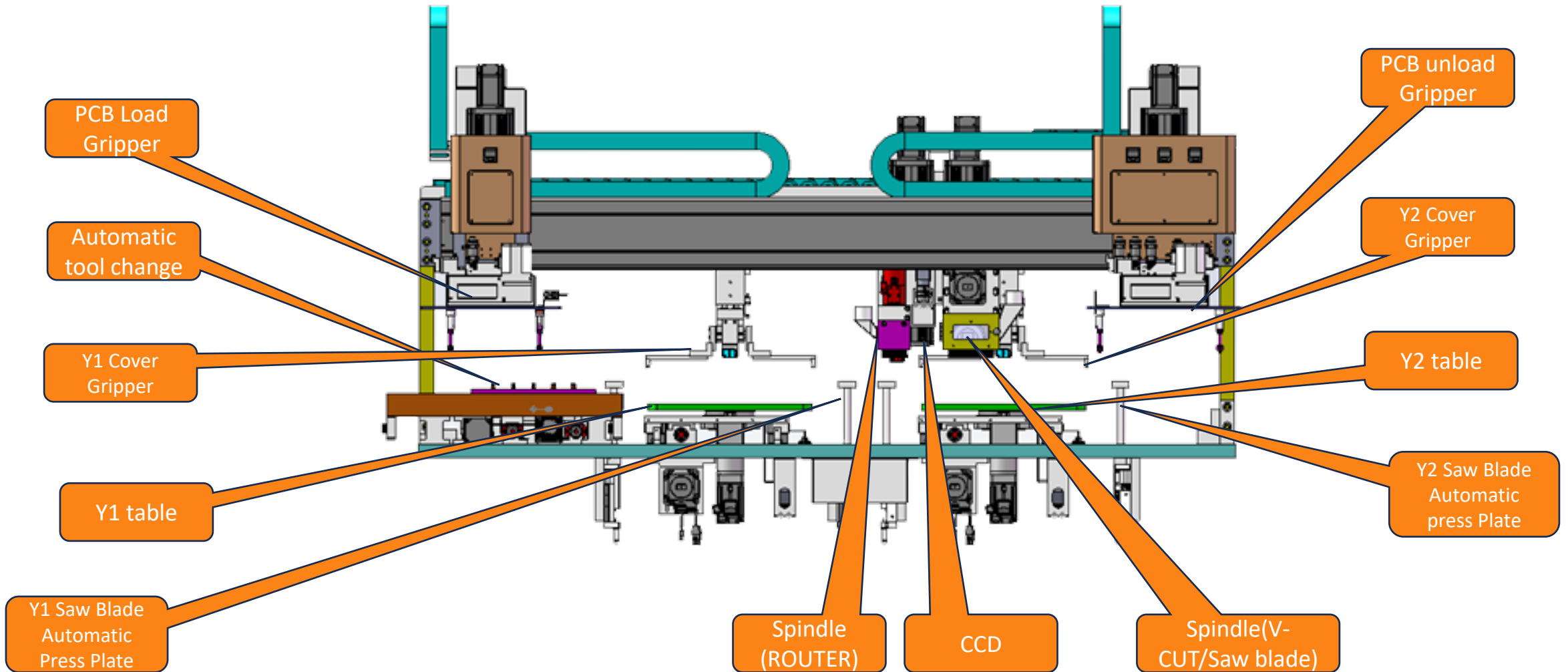
Equipment Structure

Module units



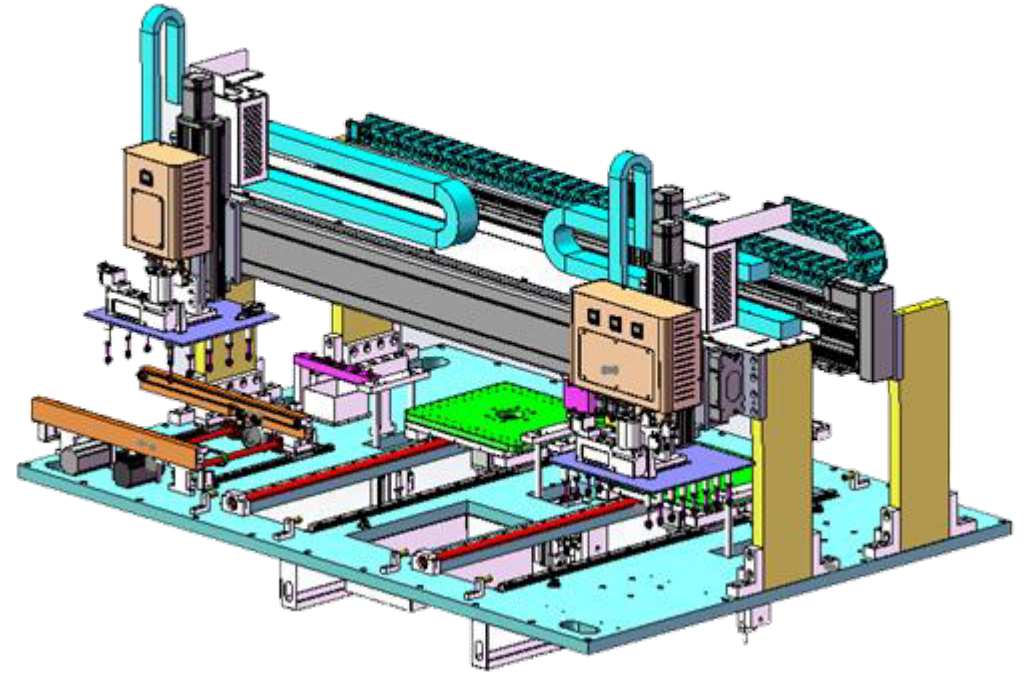
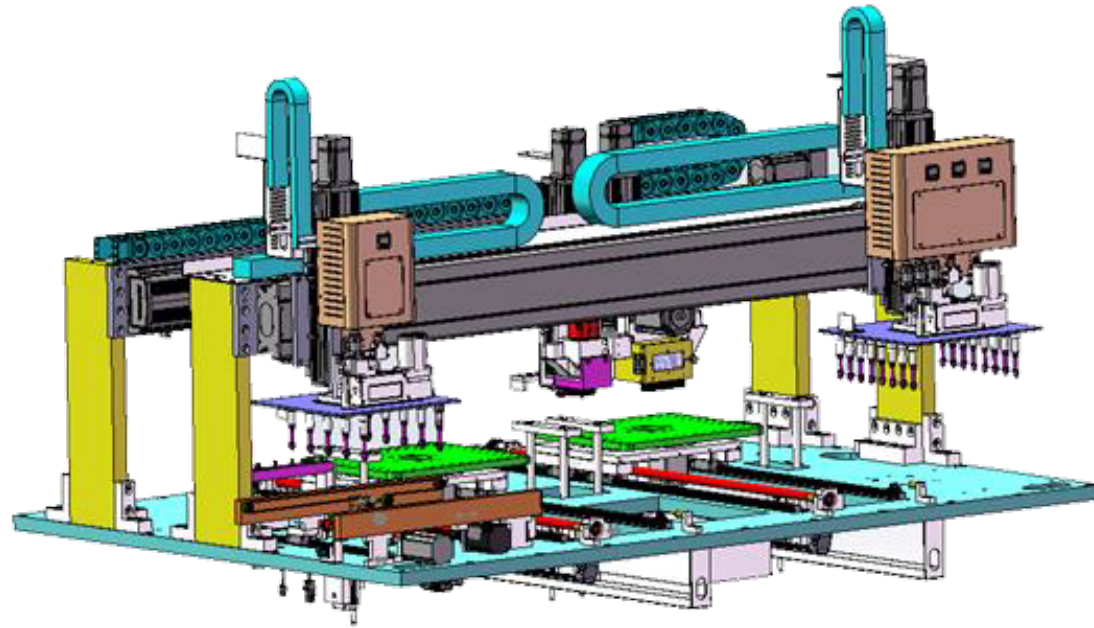
Equipment Structure

Functional Layout



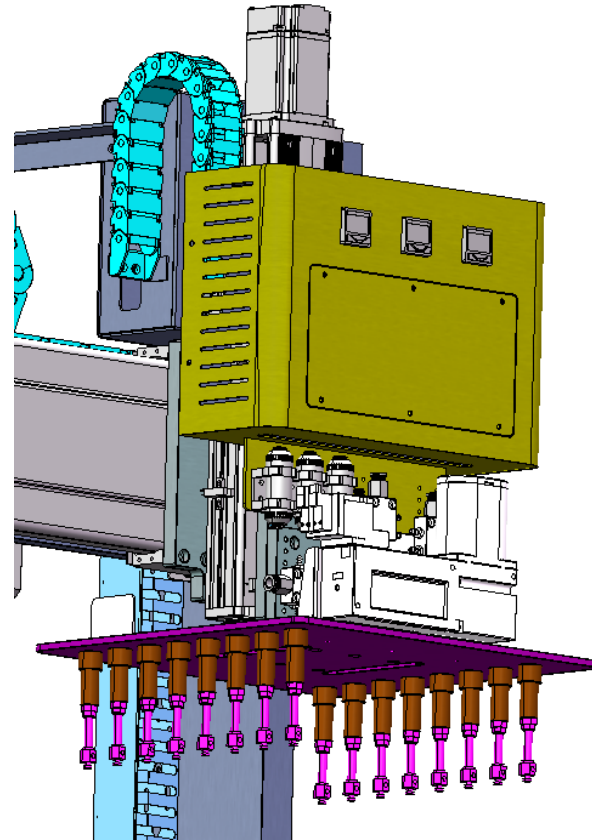
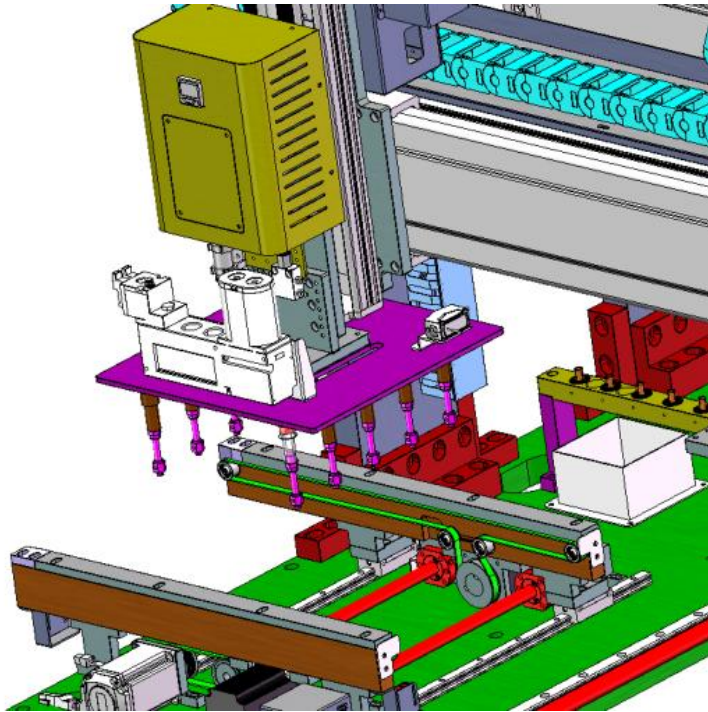
Equipment Structure

Functional Layout



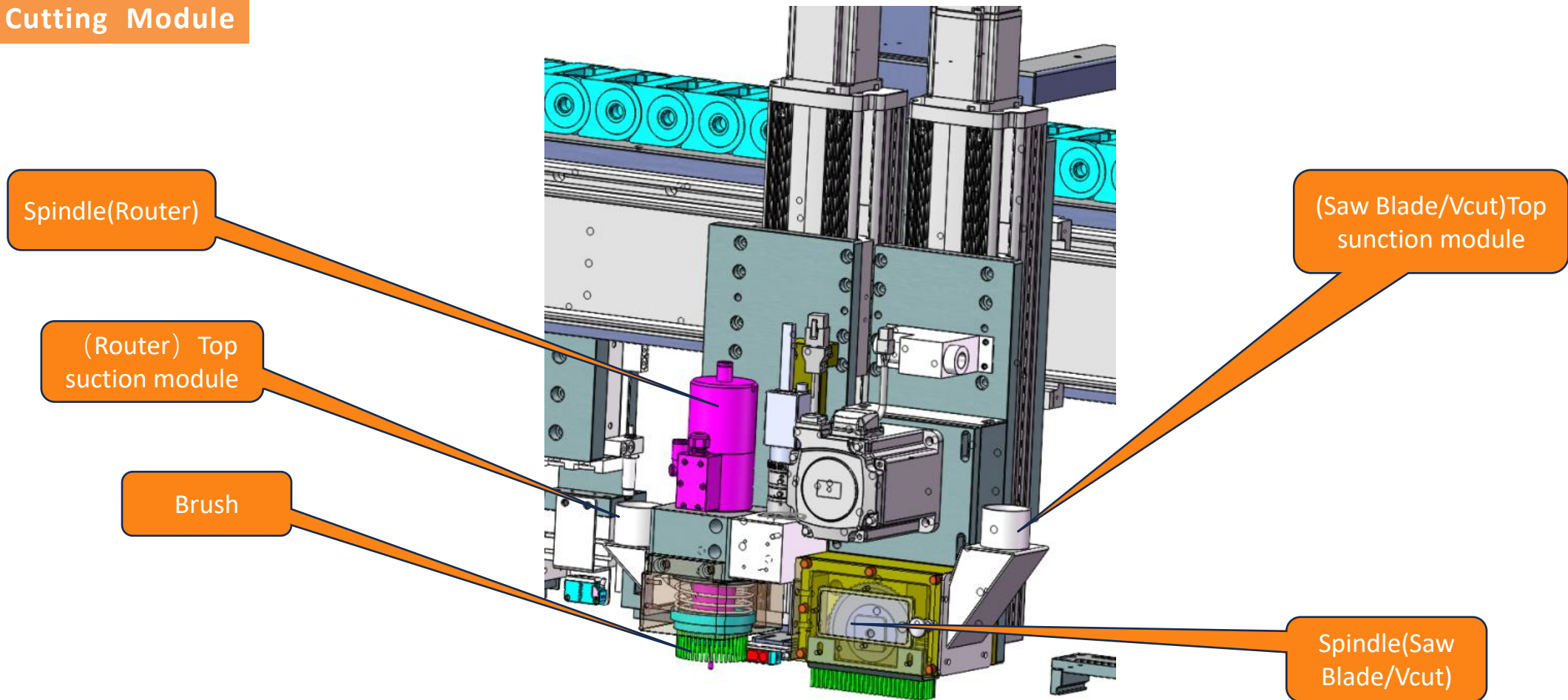
Equipment Structure

Load&unload Module



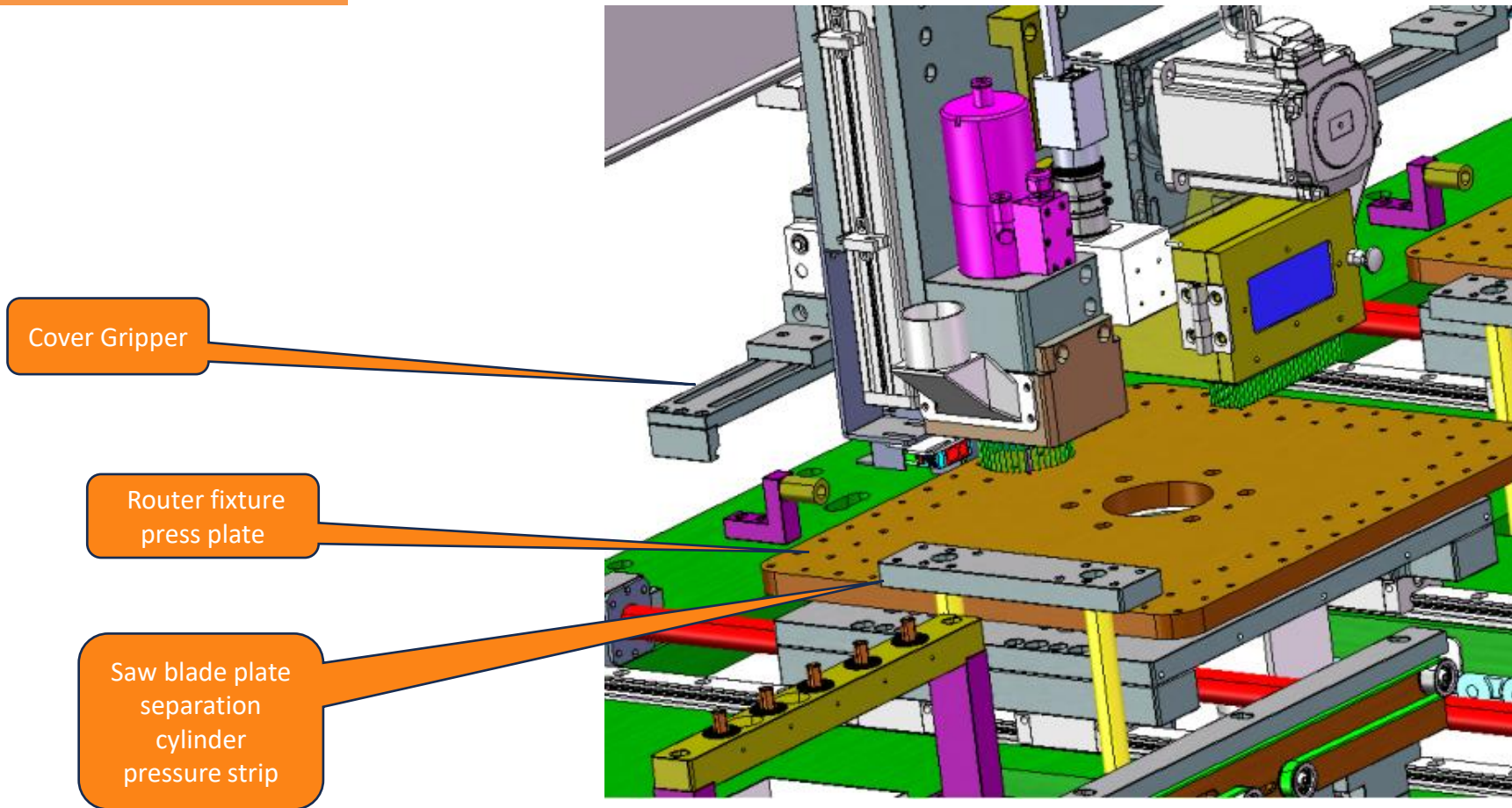
Equipment Structure

PCB Cutting Module



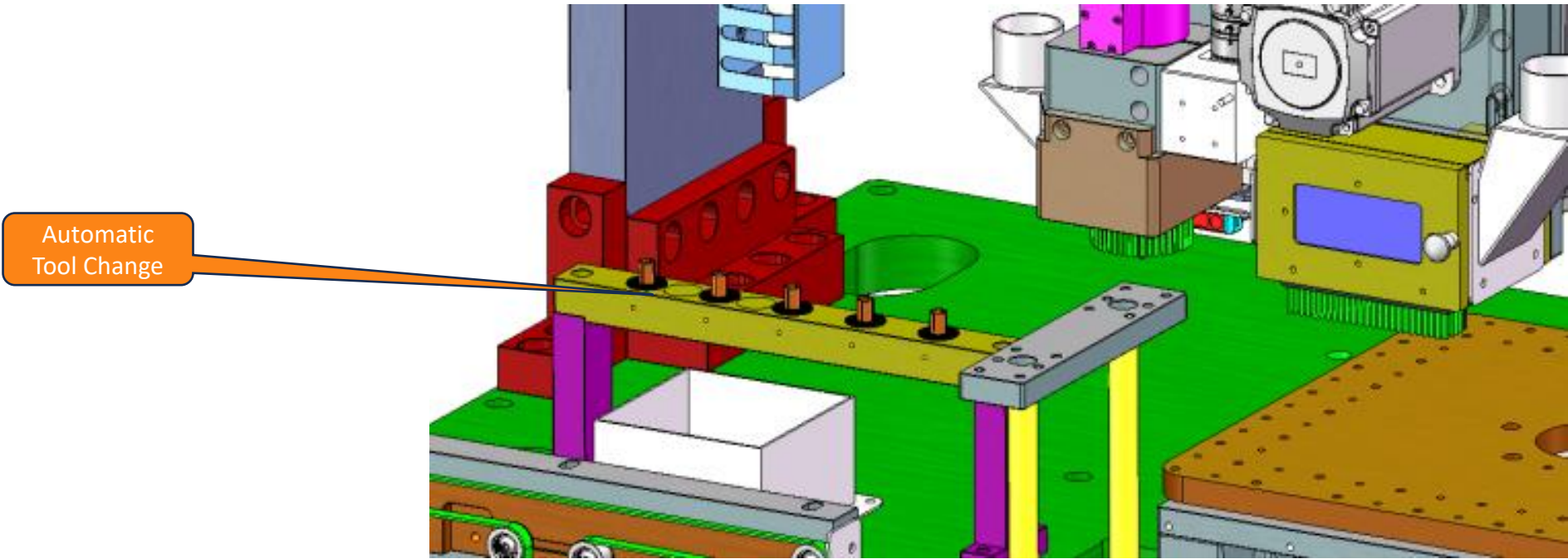
Equipment Structure

Automatic Press Plate Module



Equipment Structure

Automatic Tool Change



Machine Specification

Standard configuration

Machine Size	L1960mm*W1420mm*H1730mm	X、Y、Z axis motion speed	X、Y axis: 1000mm/s, Z axis: 700mm/s, Servo system
PCB Size	350mm*300mm	PCB thickness range	0.5-5mm, Height limit of the front component: 60mm, Reverse height limit: 40mm
Camera	Hikvision;Lens	Equipment repeatability	± 0.02mm
Broken Knife Detection / Barcode Reading	Include	Power of the whole machine (including dust collector)	5000W
Lead Screw / Track	HIWIN、TBI	Tool change method	Auto
Servo motor	Delta 400W	Table quantity	Dual Table
Static Eliminator	Include	Spindle cooling system	Air cooled method
Power supply	AC220/380V	Dust collector power and mode	380V motor, external top dust collection
Weight	1500KG	Air pressure	0.4-0.7Mpa
Displays, control systems	19 Inched industrial PC、Windows10	Nosie contol	Noise of approx. 80 dB during operation (measured at a distance of one meter from the device)
Track adjustment mode	Auto adjust by program	Warranty	1 years
Cutting track speed	1-100mm/s	Dust suction method	Top and bottom side

After-Sales Service

S e r v i c e

Vectron products are widely used in automotive electronics, intelligent hardware, security electronics, clean energy, medical electronics, aerospace, financial communications and consumer electronics and other industries manufacturing enterprises, and favored. Development trend, and constantly try to absorb new technology products application technology. We continue to improve the quality of the inherent product at the same time, quality service attitude and quick response to customer needs, to ensure that customers choose our equipment to use worry-free. Perfect customer service system is also a featured advantage of Gongcheng, the company has branches in the national electronics industry in developed regions, localized operations to quickly respond to more convenient communication.

- Promise:
- Warranty: 1 year, Lifetime maintenance。
- Response time: receive user notification, professional and technical personnel no more than 4 hours (local) 48 hours (off-site) door-to-door service, to ensure 24-hour uninterrupted after-sales technical service support; repair time: 48 hours.
- Free Warranty: Free warranty during the warranty period, after the warranty period to ensure reasonable prices for spare parts and maintenance services.
- Free training: free on-site equipment operation training for purchaser's technical staff to ensure that the user's personnel can master a variety of equipment and software and other routine use, as well as small faults in the judgment and solution.

Honor Customer

Customer



Thank you