

NEW UPGRADE AND OPTIMIZATION PICK AND PLACE MACHINE



**Avoid Getting
Out of Step**



**Positioning
Accuracy**



**Correction
Offset**



**Fast
Placement**



Easy to Use



PPM-A320V

SMT AUTOMATION

PPM-A320V SMT pick and place machine meet the design concept of multi-material and multi-variety components, which is suitable for small and medium-sized batch production, experimental development, school teaching and other purposes.

8 CORE TECHNOLOGIES

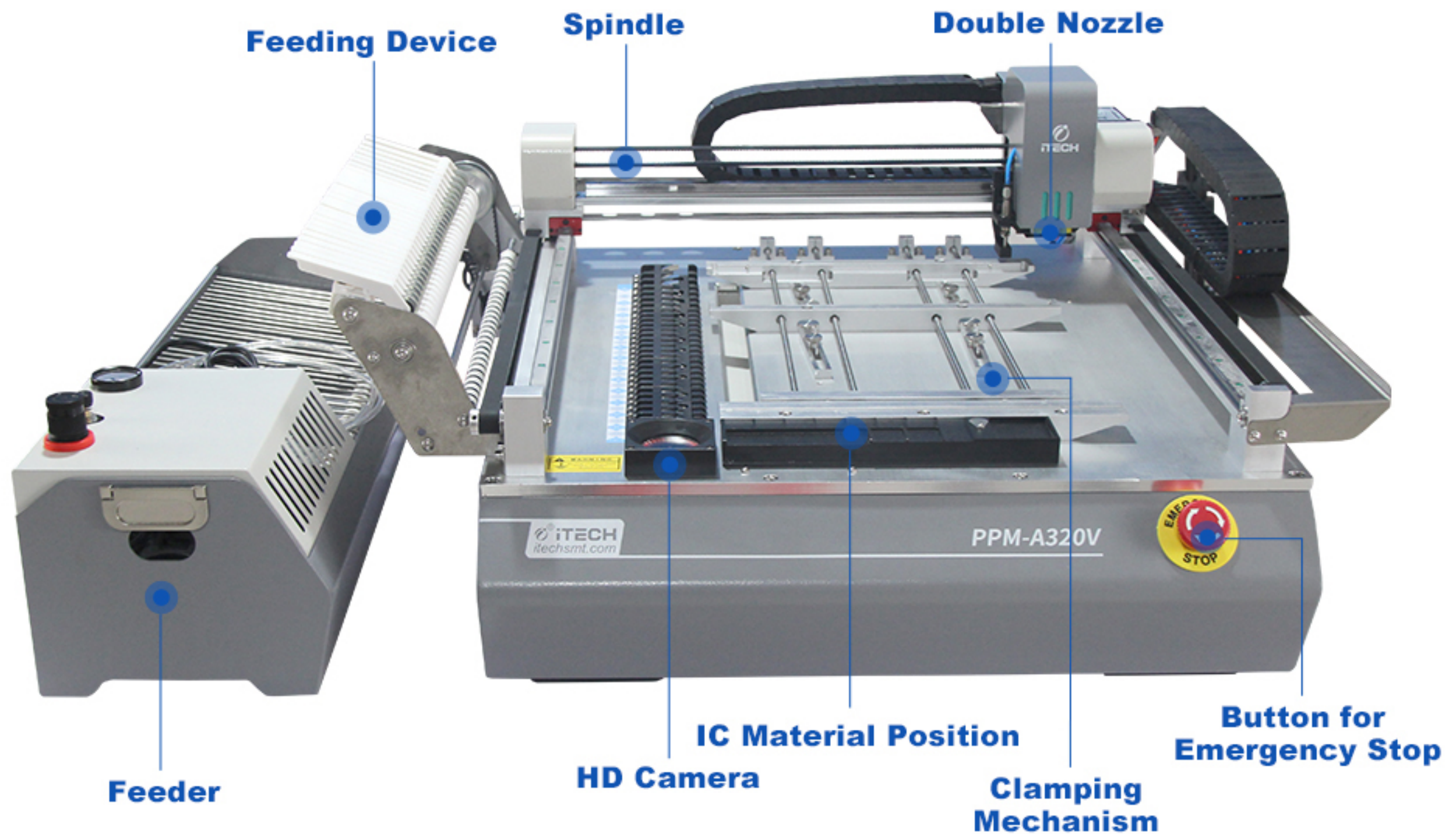
- | MARK point identification and positioning
- | Support Source File Conversion File
- | Online Editing | Feed Processing
- | Imposition Array | CCD Industrial Camera
- | MARK point-by-board identification
- | PCB process difference compensation

*Please contact us for availability.



PRODUCT STRUCTURE

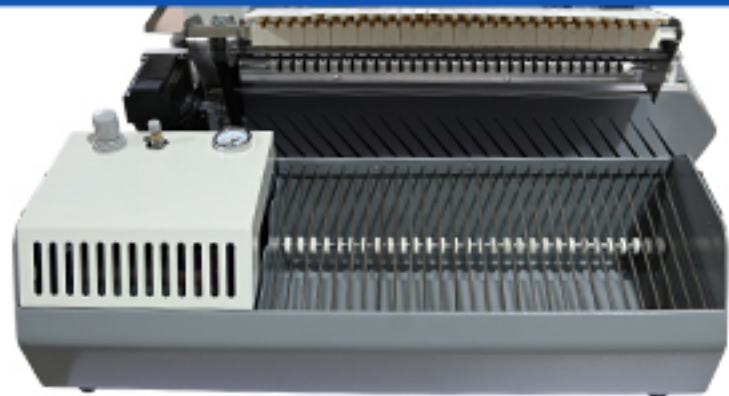
ZHEJIANG HUAQI ZHENGBO AUTOMATION TECHNOLOGY CO., LTD.



Feeder

IC Material Position

Clamping Mechanism



Spindle

Double Nozzle

HD Camera



Technical Data

Model	PPM-A320V
Mounting Numbers	2PCS
Mounting Precision	0.025mm
Mounting Angle	0~360°
Mounting Speed	5000pcs/hour
Suction Nozzle Type	Juki Series Nozzle
Applicable Element	RC(0402、 0603、 0805、 1206 etc)
	LED Lamp Beads(0603、 0805、 3014、 5050 etc)
	Chip(SOT、 SOP、 QFN、 BGA etc)
SMD Height	≤5.5mm(Customize ≤11mm)
PCB Minimal Size	10×10mm
PCB Maximum Size	320×450mm
PCB Thickness	≤2mm
Components Wheel Type	8mm、 12mm、 16mm、 24mm、 32mm
Front IC Location	10pcs
Back IC Tray	1pc
Vibration Feeder	ZB Customized Feeder(Optional)
X/Y Axis Moving Range	430×530mm
Z Axis Moving Range	10mm
Z Axis Rotation Angle	0~360°
Visual Camera	CCD High-definition Camera
Numbers of Visual	Parts Camera×3、 PCB Camera×1
Recognition Capability	MAX. 22×22mm
PC System	Microsoft WIN7
Operational Software	R & D
Compatible File Format	CSV. TXT. Format
Program Method	Support Online and Offline Ways
Air Pressure	0.4Mpa
Vacuity Degree	-66kpa
Power	AV220V±10% 50H
Power Supply	150W
Main Engine Outline Size	L830×W730×H375mm
1#Materials Feeder Outline Size	L235×W700×H245mm
Weight	56KG

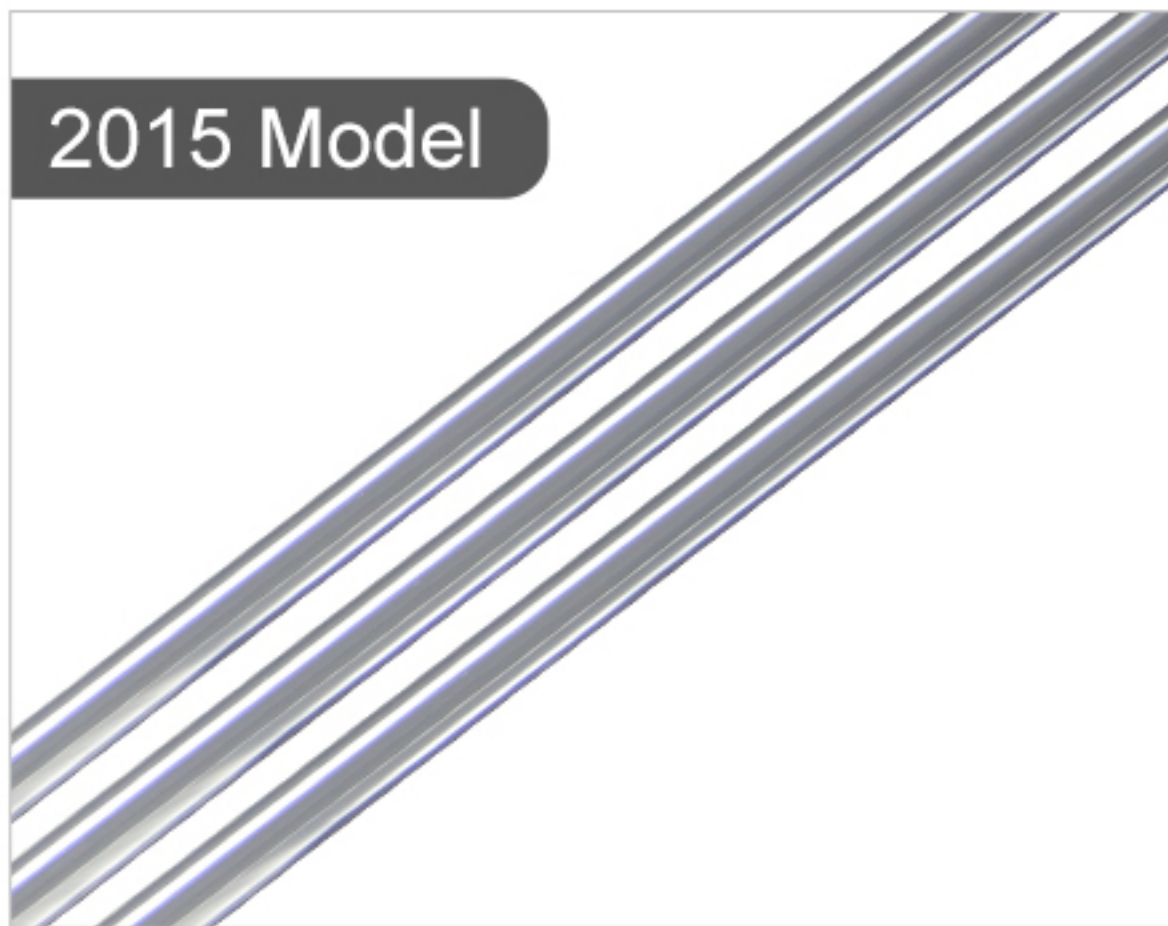
ADVANTAGES

COMPARISON OF NEW AND OLD MODELS

TAKE YOU TO A QUICK UNDERSTANDING



01 Drive Spindle

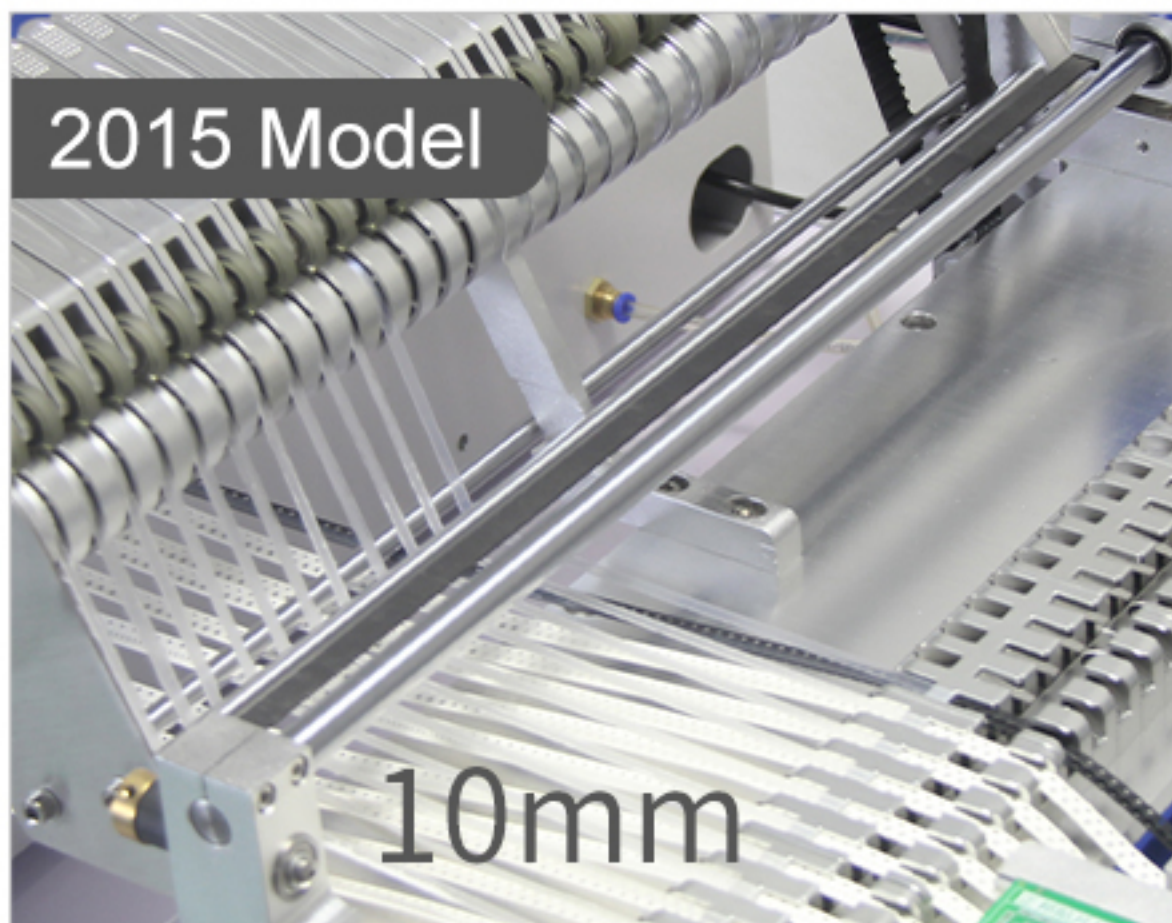


Basic Guide



HIWIN Linear Guide

02 Transmission Belt

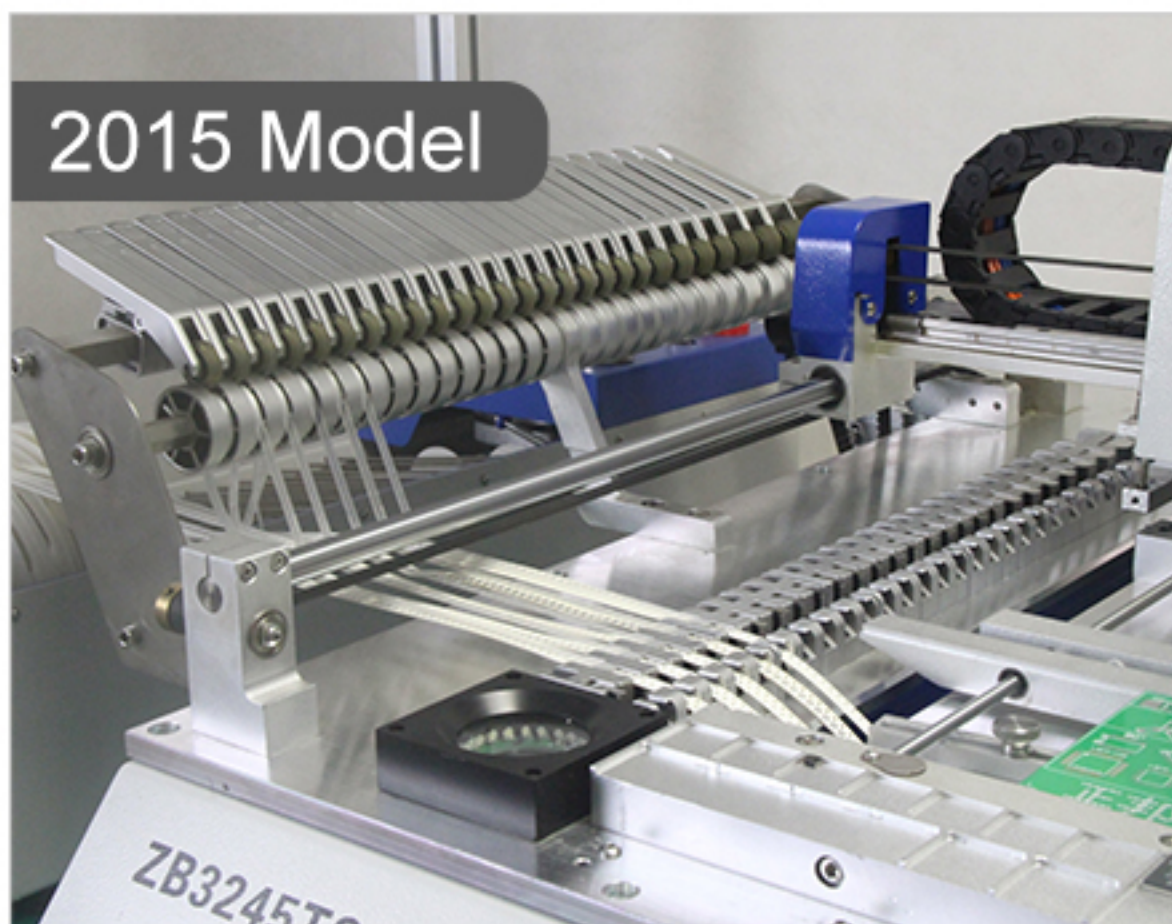


Belt



Widened belt

03 Receiving Structure

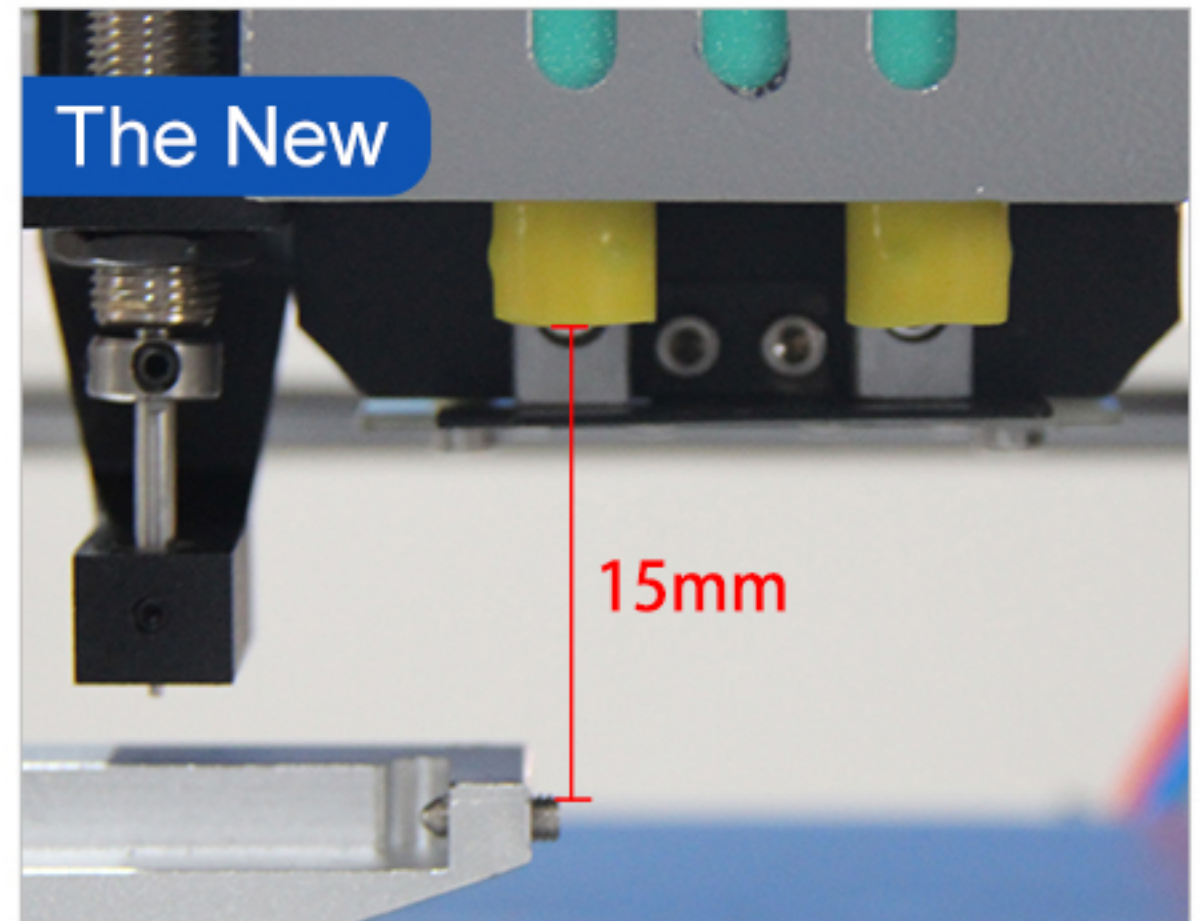
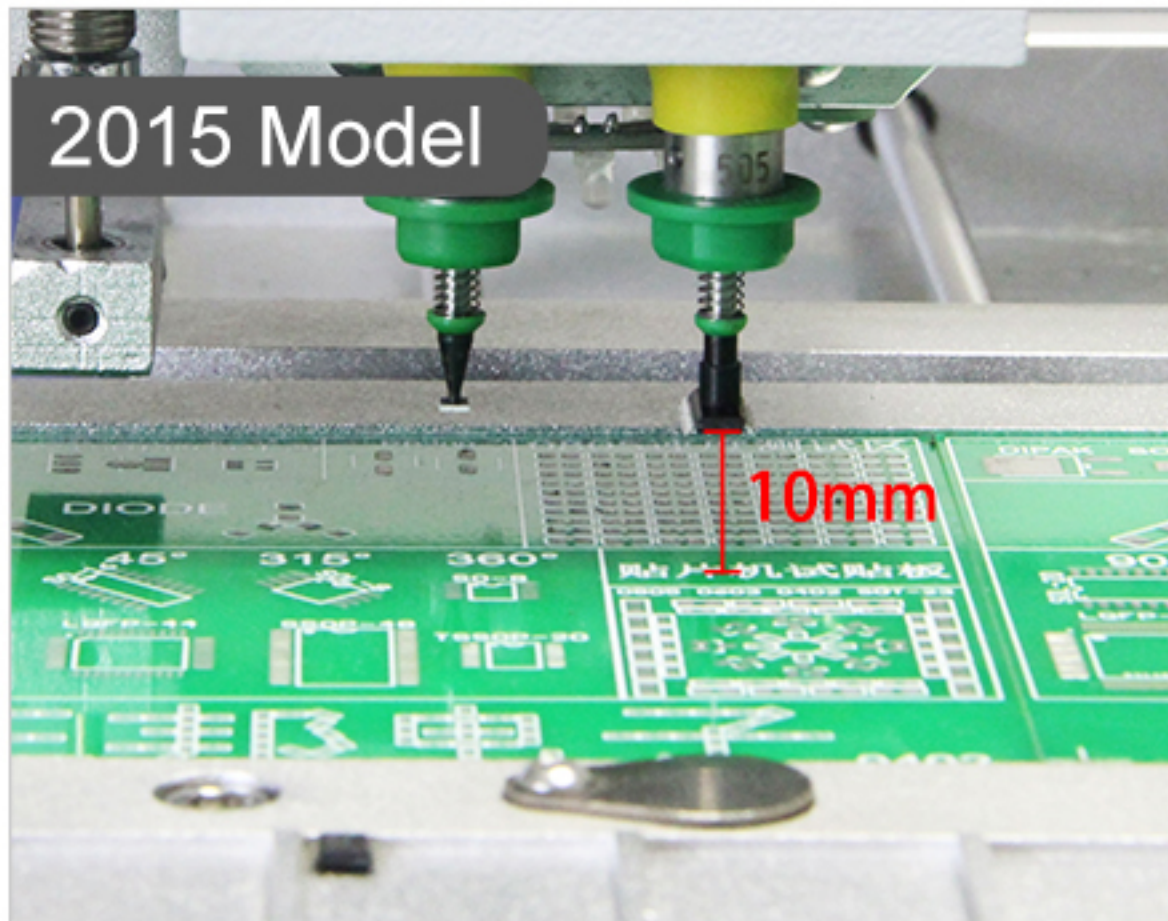


2015 Model Film Collection



2022 Model Film Collection

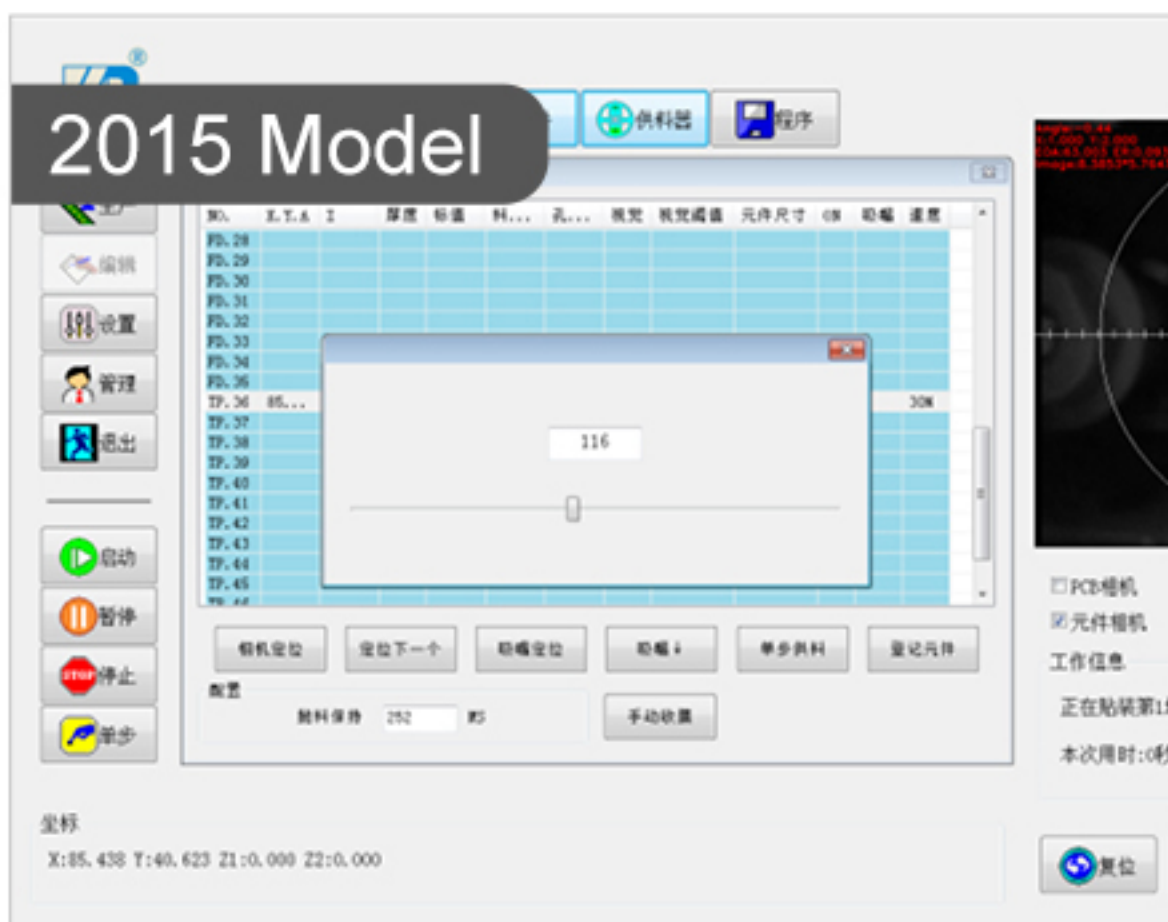
04 Z Axis Movement Distance



10mm

Can Be modified to 15mm

05 Software



2015 Model Software



2022 Model Software

MARK point recognition board by board, optimizing editing interface, optimizing nozzle correction, optimizing software algorithm, etc..

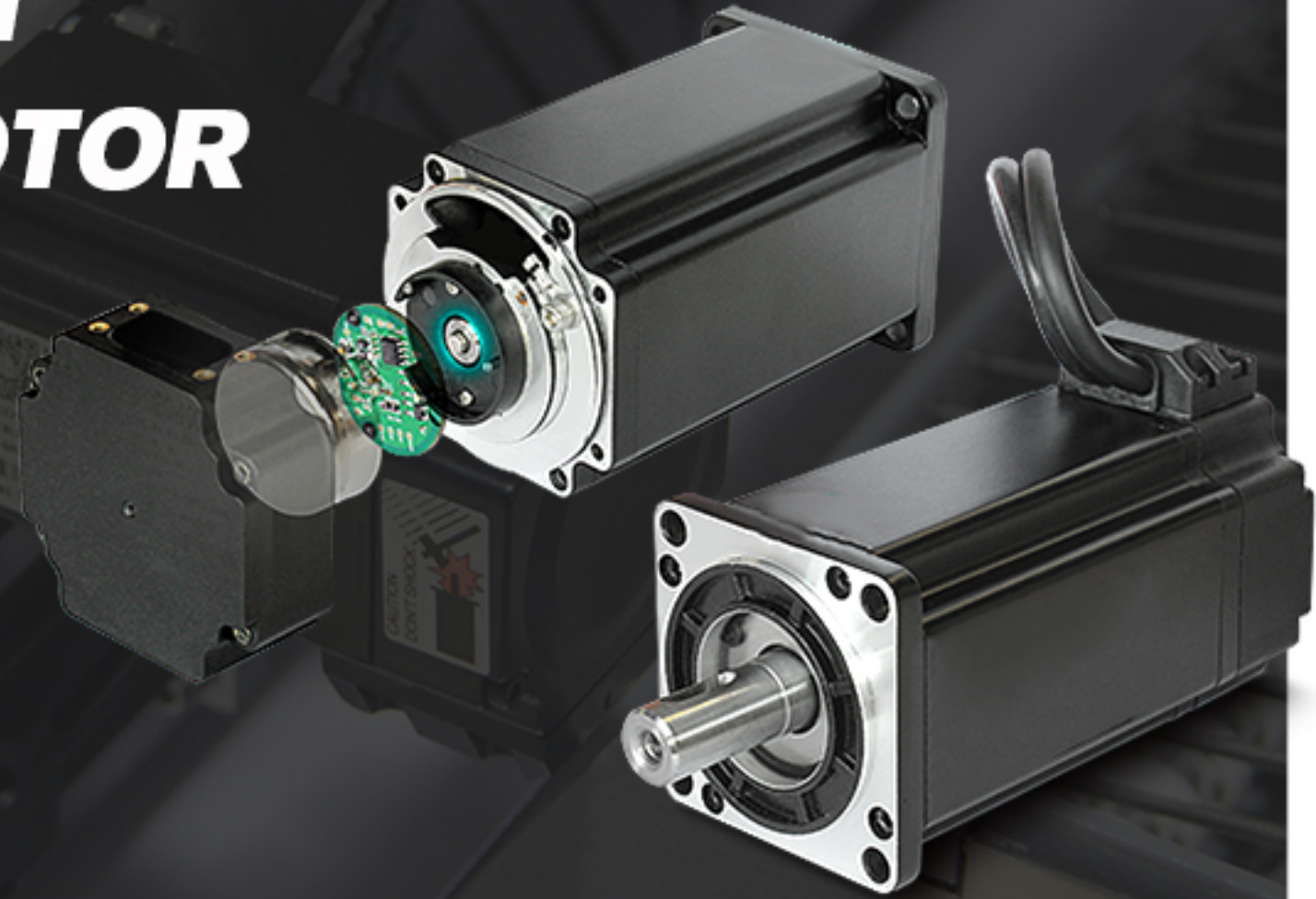
PRODUCT ADVANTAGES

ZHEJIANG HUAQI ZHENGBANG AUTOMATION TECHNOLOGY CO., LTD.



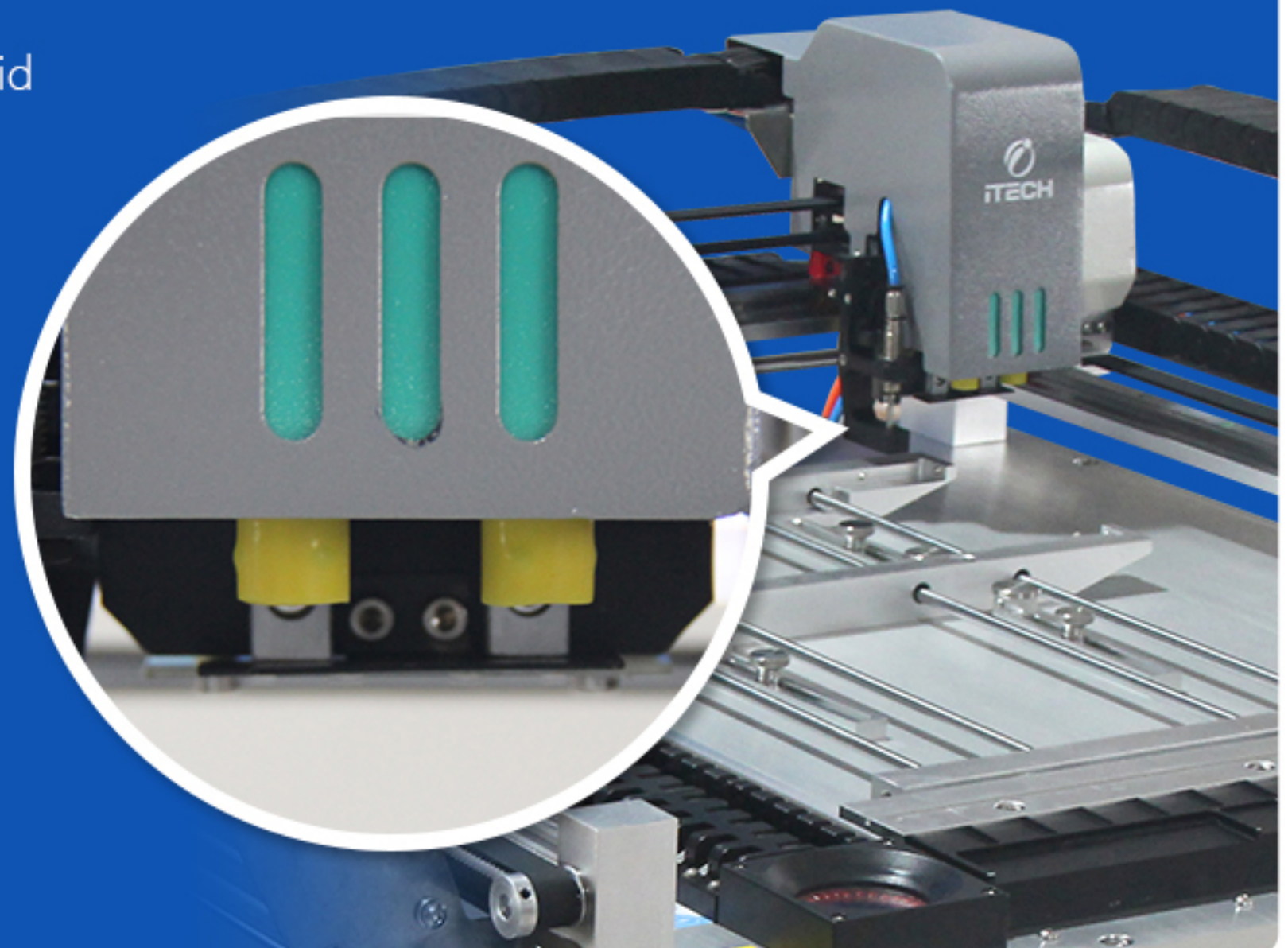
CONFIGURATION STEP SERVO MOTOR

Making the position, speed and moment of force closed cycle control and solve the stepper servo motor out of step problems. Eventually achieved High precision positioning and smooth low speed operation requirements.

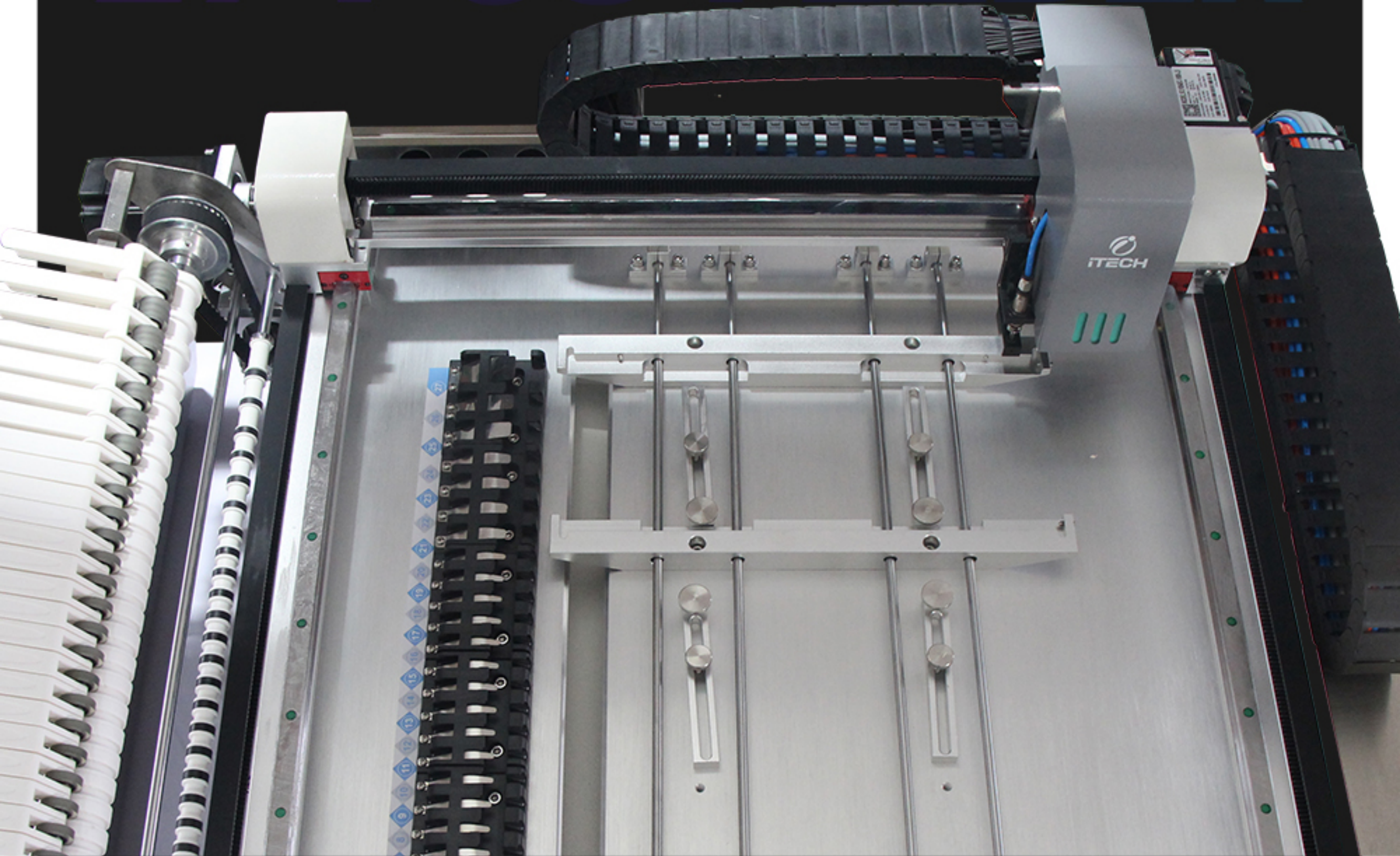


DOUBLE HEAD MOUNTING

Double head design realizes rapid placement of tiny components and integrated IC components



27 PCS FEEDER

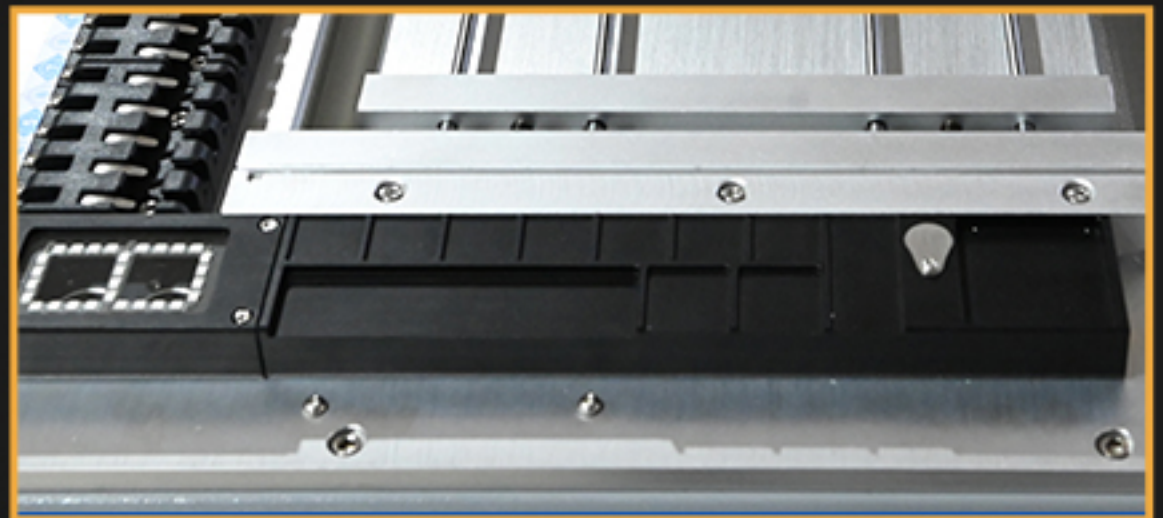


SUPPORT MULTIPLE FEEDERS

Support 27 bit automatic stripping film feeder , TUBE vibration feeder IC tray .Meet diverse needs



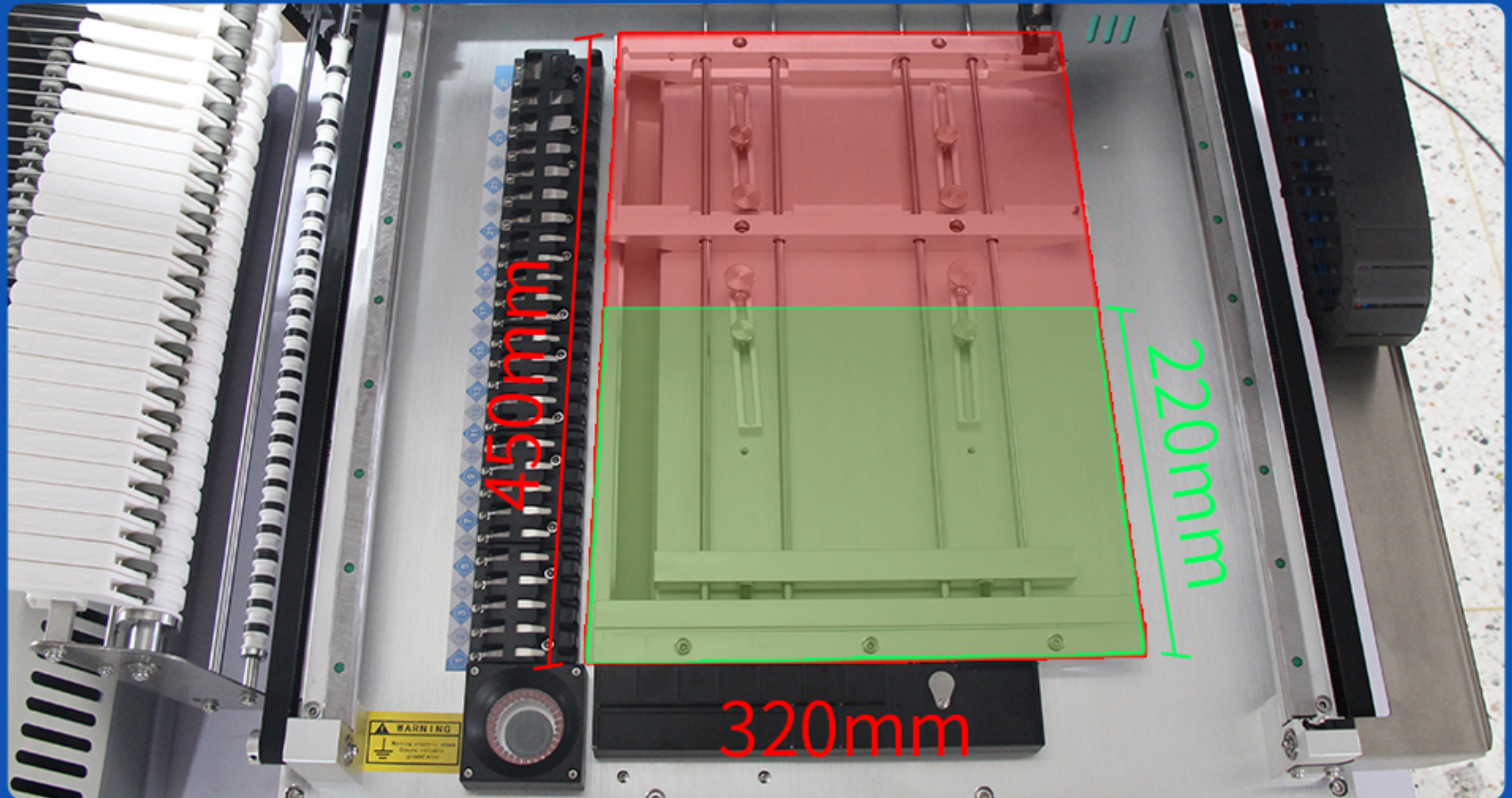
IC Tray



10pcs Front IC Location

PCB PLACEMENT

Support Up To 320*450mm PCB Suitable for most circuit board mounting



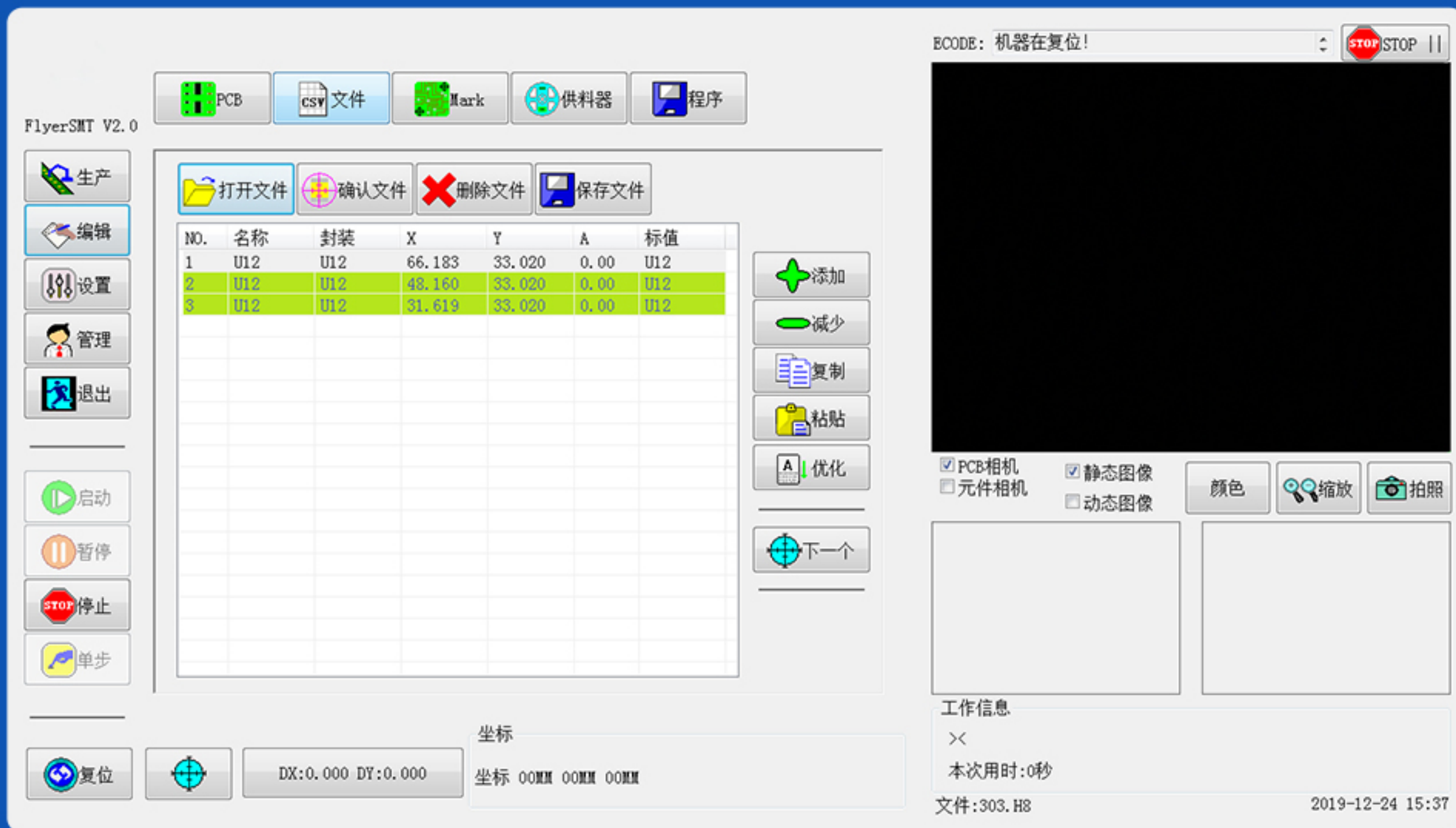
HIGH RESOLUTION CCD INDUSTRIAL CAMERA

High Resolution CCD Industrial Camera Correct Charging
DeviationIt improves the reliability of mounting



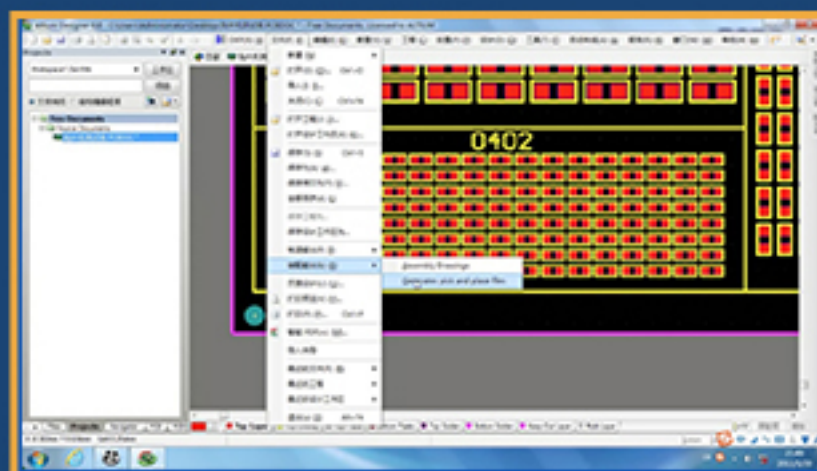
OPTIMIZE INTERFACE EDITING INTERFACE

More User-friendly Control System Easy to Learn, Understand and Operate 1 Hour to Get Started, 3 Days to Skilled, 7 Days to Master



MARK POINT RECOGNITION AND POSITIONING

Automatically correct the offset caused by PCB irregularities, improper positions, etc. MARK points can be customized to solve the problem of patch irregularities



IMPORT AND EDIT THE COORDINATE FILE

Support PCB source file conversion CSV coordinate file --- Import editing---quick editing procedures



NOZZLE CALIBRATE FUNCTION

The system automatically calculates the nozzle deviation value for compensation correction.

EMBEDDED INDUSTRIAL PC AND WINDOWS SYSTEM



Windows system, simple and convenient operation, performance much more stable



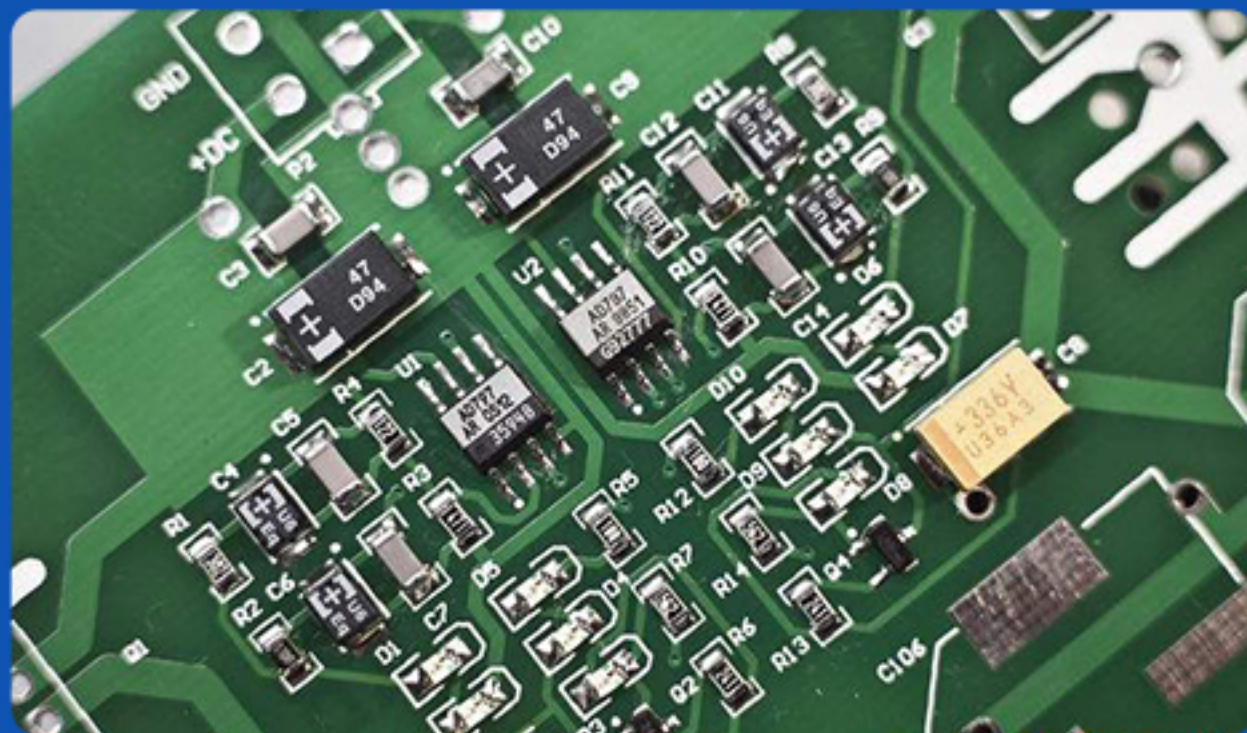
Embedded industrial PC, quality much more stable and reliable

EFFECT PICTURE

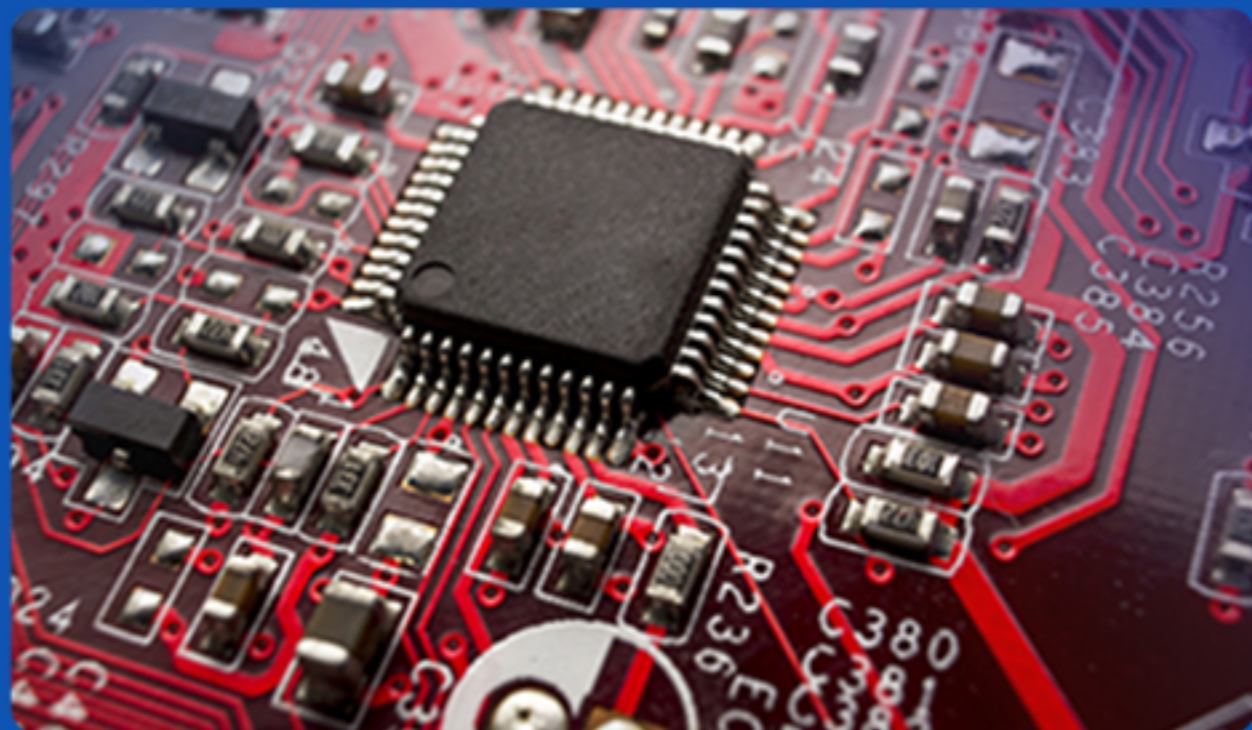
Maximum 5500pcs/h mounting Achieve high speed mounting requirements



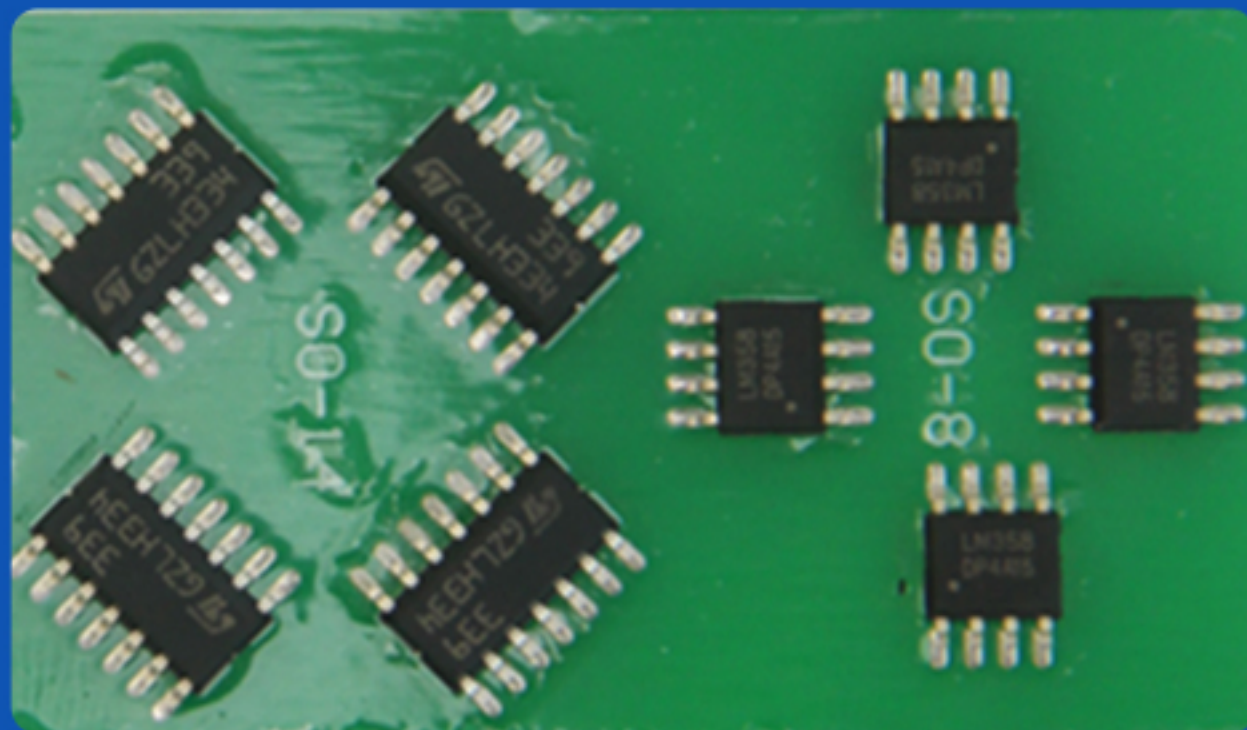
All Kinds of LED Mounting



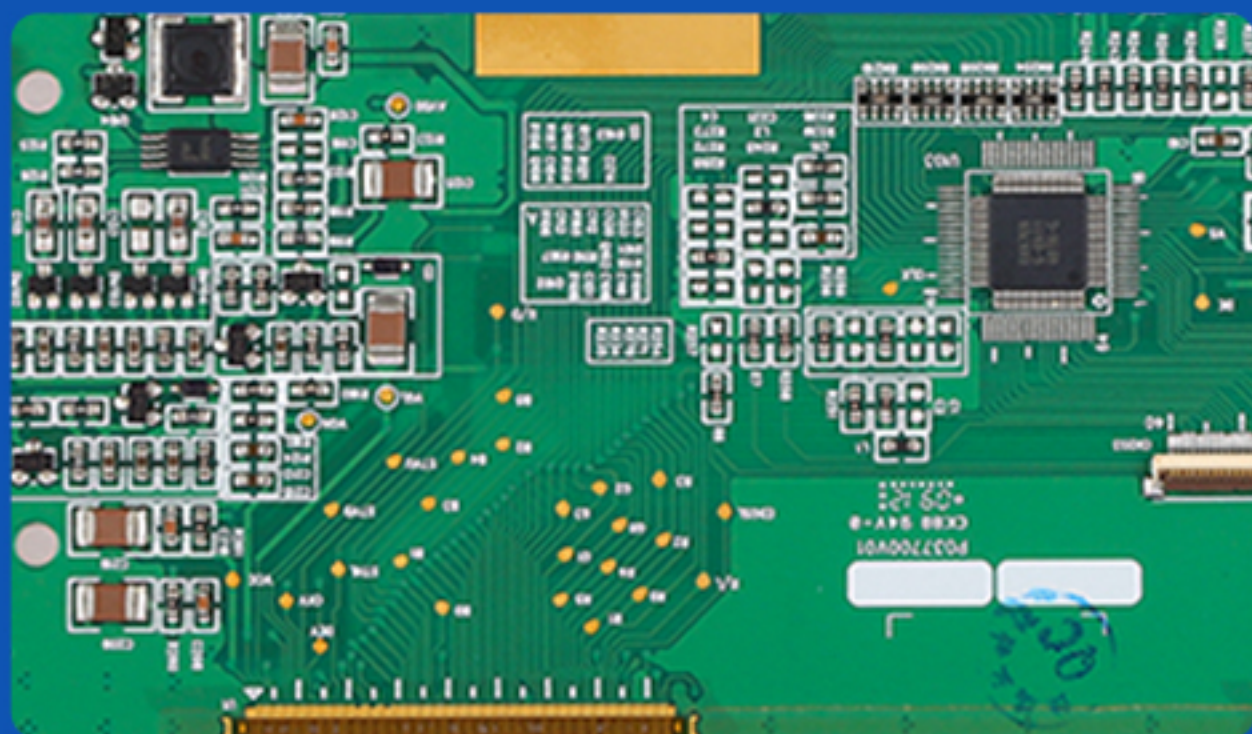
Resistance,Capacitance ,Triode and IC Mixed Mounting



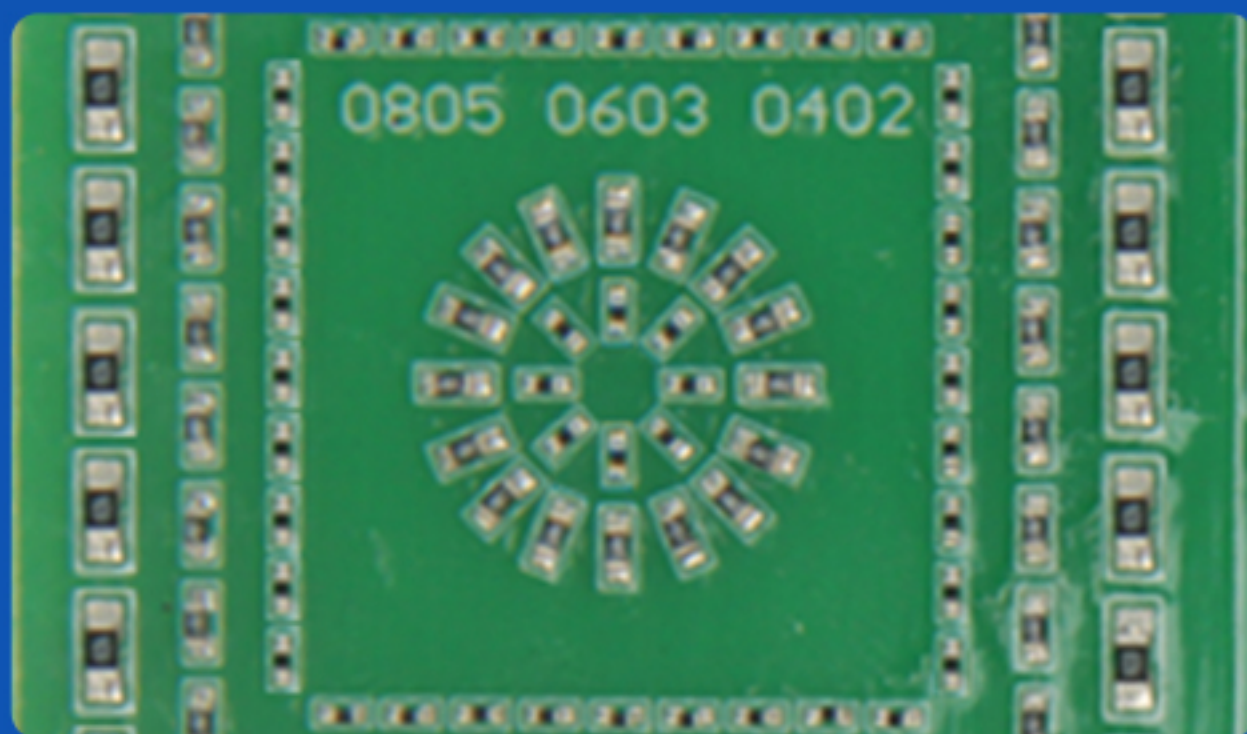
Resistance,Capacitance and IC Mixed Mounting



IC Each Angel Mounting



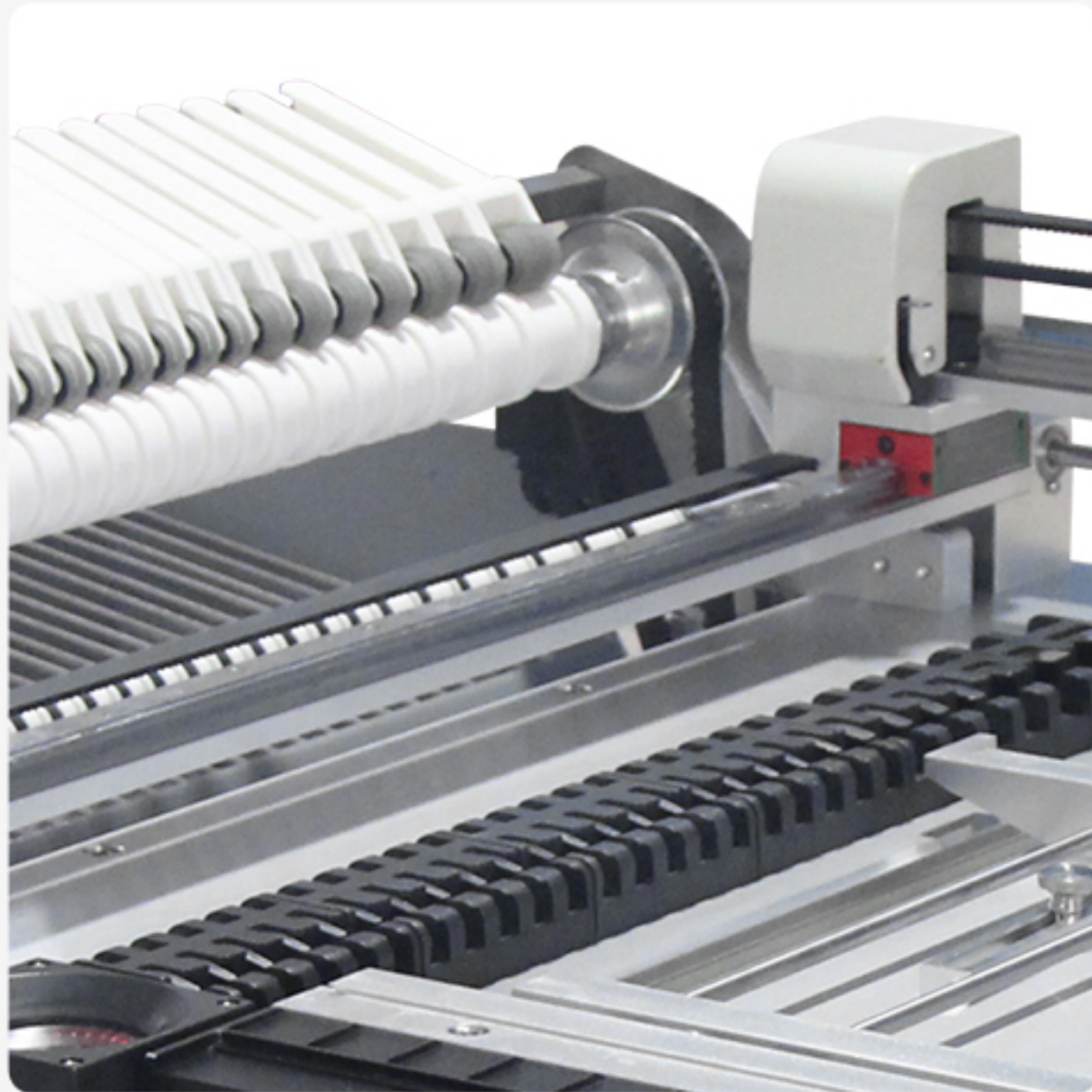
Resistance,Capacitance and Audion Mixed Mounting



0402、 0603、 0805 Each Angel Mounting

PRODUCT DETAILS

SMT AUTOMATIC VISION PICK AND PLACE MACHINE



01

GUIDE

TAIWAN HIWIN LINEAR GUIDER WAY

Both XY axis adopts Taiwan HIWIN linear guide rail, more stable and more accurate.

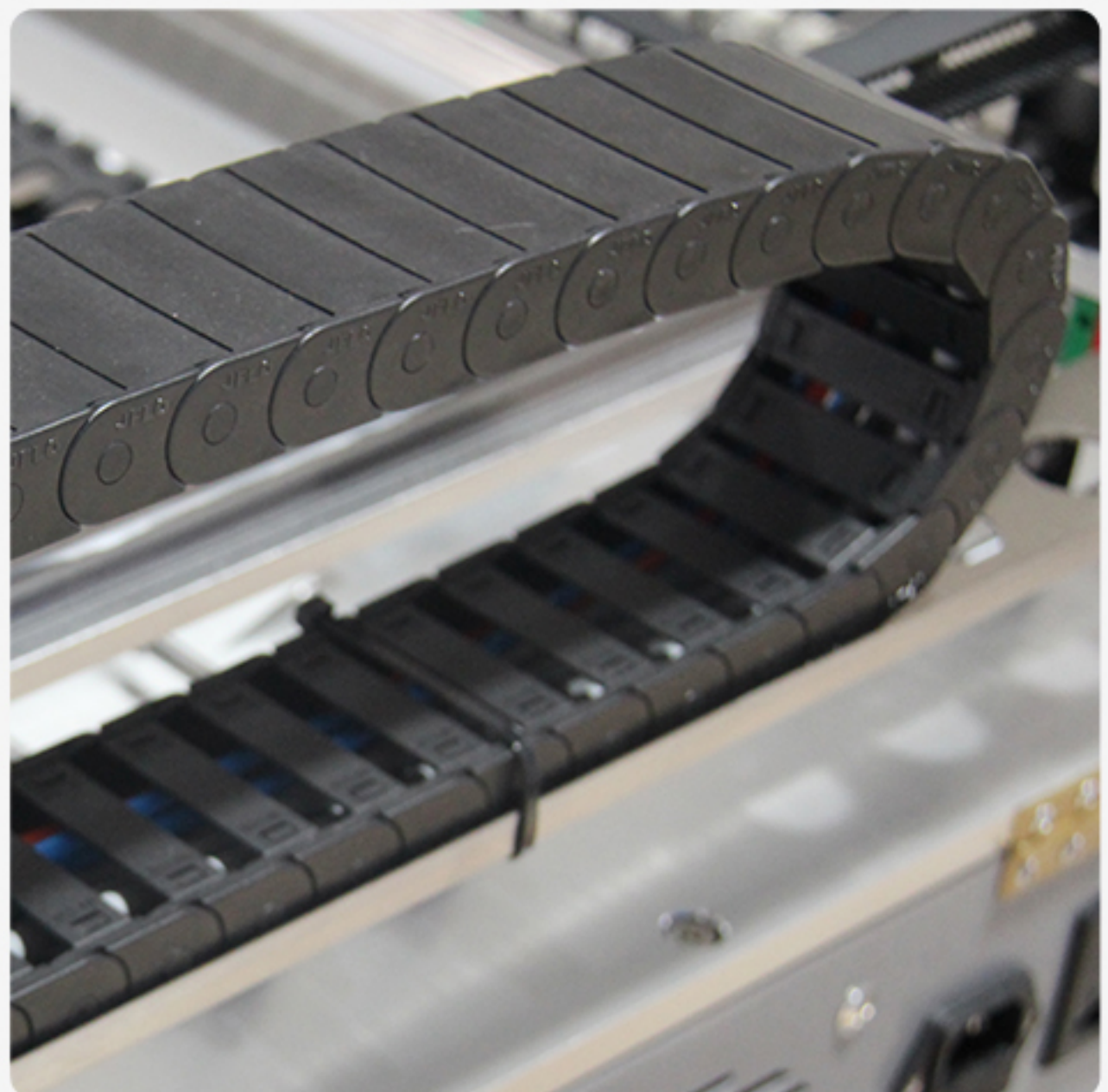


02

TRANSMISSION

TRANSMISSION BELT

Japan UNITTA 15mm width belt With much good wear resistance and aging resistance Not easy to deform and stretch, makes the machine have a high precision





STRIPPING

AUTOMATIC STRIPPING FILM FEEDER

Independent research and development of pneumatic feeding system comparing with other similar products on the market, it perfectly improved the belt problem such as easy to break and and so on.



NOZZLE

UNIVERSAL SMT NOZZLE

Universal SMT Nozzle

Meet the different packaging requirements

