

INTEGRITY · RESPONSIBILITY · CRAFTSMANSHIP · INNOVATION · ALTRUISM · AND WIN-WIN



FOCUSING ON RESEARCH AND DEVELOPMENT, DESIGN, PRODUCTION,
AND SALES OF VARIOUS ELECTRONIC MOUNTING AND WELDING EQUIPMENT


ENTERPRISE PRODUCT CATALOG

ZHEJIANG HUAQI ZHENG BANG AUTOMATION
TECHNOLOGY CO., LTD.

ОФИЦИАЛЬНЫЙ ДИСТРИБЬЮТОР В РОССИИ "АБСОЛЮТ ЭЛЕКТРОНИКА"

 **Email адрес для запросов:** zapros@absolutelectronica.ru

 **Tel:** +7-495-308-00-00  **Website:** absolutelectronica.ru

 **Office:** 320 Leninsky pr.153, Saint-Petersburg, Russia

По вопросам приобретения оборудования ZHEJIANG HUAQI ZHENG BANG AUTOMATION TECHNOLOGY CO., LTD. просим обращаться ООО "Абсолют электроника" - официальному дистрибьютору в России по контактам указанным выше



INTELLIGENT MANUFACTURING IN CHINA

EMPOWERING ELECTRONIC INTELLIGENT MANUFACTURING UPGRADE

TO ACCELERATE INDUSTRY DEVELOPMENT



ABOUT US - HUAQI ZHENGBANG

ZHEJIANG HUAQI ZHENGBANG AUTOMATION TECHNOLOGY CO., LTD.

Zhejiang Huaqi Zhengbang Automation Technology CO., Ltd. (Wenzhou Zhengbang Electrical Equipment CO., Ltd.) is founded in 2007, focusing on developing, design, manufacturing and sales automatic manufacturing devices and electronic production equipment.

The company supplies professional and individual solutions for LED lighting, electronic, electrical products, toys, metal, cars. Major products are LED lighting automatic assembly lines, THT soldering device, SMT soldering machines and multiple working tables and non-standard equipment. Major products are LED bulb automatic assembly lines, flood lights assembly lines, downlights assembly lines, THT soldering equipment, SMT soldering device, working table and non-standard customized machines.

Huaqi Zhengbang has big scale market covering 30+ province and districts inside of china and 30% products are selling to Hongkong, Taiwan, Southeast Asia, Africa, Europe, and America. Huaqi Zhengbang believes "Qualified Base, Market Leading, Technical Development, Profitable Management" company role in order to improve core competitiveness, providing qualified service to most clients with "Qualified Products, Reasonable Pricing, Excellent Reputation and full range after-sale service".

COMPANY VISION: Contributing to create Chinese first brand in electronic and electrical production equipment.

COMPANY
ESTABLISHMENT

2007 YEAR

SERVING
CUSTOMERS

200,000+

COMPANY
STAFF

300+

FACTORY
AREA

33639 m²



HONORARY QUALIFICATIONS

CONTENTS

SMT Mounting and Soldering Series	01-52	THT PLUG-IN SOLDERING SERIES	53-50
SMT Combination Assembly Line	01-04	THT Combination Assembly Line	53-54
Pick and Place Machine List	05-08	Resistance Forming Machine	55
Desktop Pick and Place Machine	09-16	Spray Furnace	56
Automatic Vision Pick and Place Machine	17-28	Tin Melting Furnace	57
Solder Paste Mixer	29	Semi-Automatic Dip Soldering Machine	58
Semi-Auto Solder Printing Machine	30	Fully Automatic Wave Soldering	59-62
Solder Printing Table	31-32	Fully Automatic Dip Soldering Machine	63-64
Micro Board Loader	33	PCB Pin Cutting Machine	65
PCB Loader and Uloader	34	Fully Automatic PCB Pin Cutting Machine	66
Reflow Oven	35-39	PCB Input Machine	67
Conveyor	40	PCB Output Machine	68
Heating Platform	41	Knife Grinder	69
PCB Splitter	42	Cutting Machine Blade	70
NGOK Unloading Machine	43	ASSEMBLY LINE WORKBENCH	71-72
PCB Transfer Machine	44		
PCB NG OK Buffer Conveyor	45		
Vacuum PCB Loader	46		
Fully Automatic Printing Machine	47		
Fully Automatic AOI Detector	49		
Fully Automatic Vertical Plug-in Machine	51		
SMT Feeder	52		



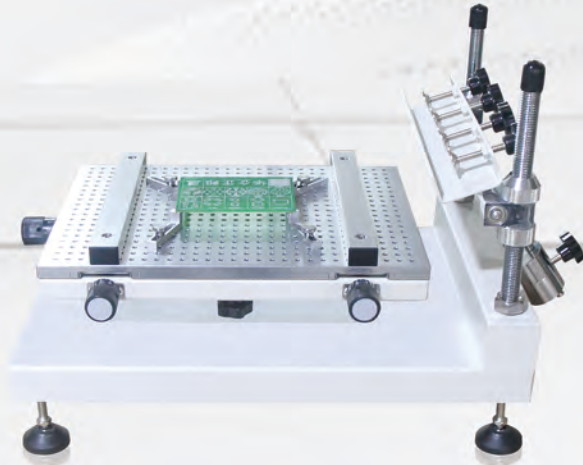
SMT COMBINATION ASSEMBLY LINE

Research and Development Sample Combination 1



400MM

Solder Paste Mixer



540MM

Solder Printing Table



1080MM

Desktop Pick And Place Machine



675MM

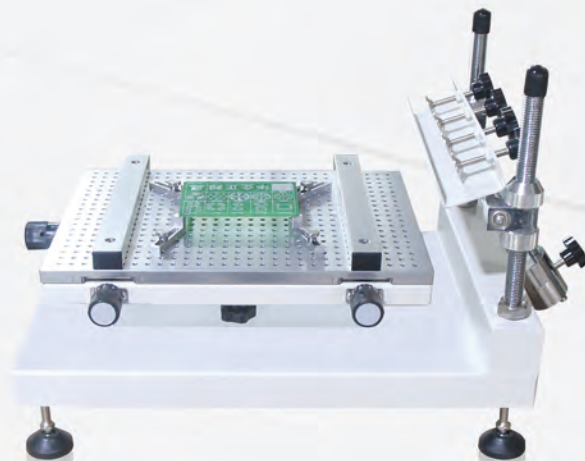
Desktop Reflow Oven

Research and Development Sample Combination 2



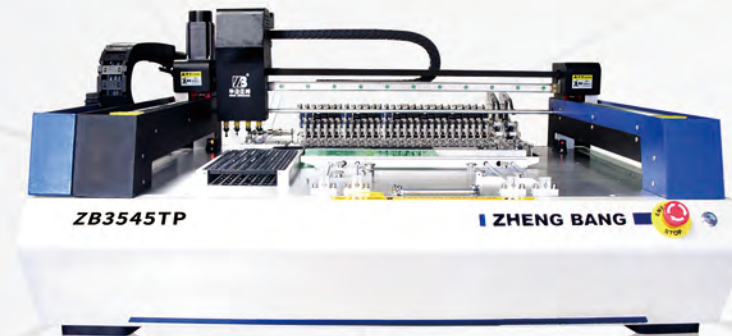
400MM

Solder Paste Mixer



540MM

Solder Printing Table



1185MM

Desktop Pick And Place Machine



1700MM

Mesh Belt Reflow Soldering

SMT MEDIUM-SIZED PRODUCTION COMBINATION 1 · TOTAL LENGTH 7465MM



SMT MEDIUM-SIZED PRODUCTION COMBINATION 2 · TOTAL LENGTH 9395MM



SMT MEDIUM-SIZED PRODUCTION COMBINATION 3 · TOTAL LENGTH 12700MM



SELECTION OF SMT MACHINE SERIES



BC-8Y

Model: BC-8Y Number of Mounting Heads: 8
 Feeder Slots: 1 Positioning Accuracy: 0.02mm
 Camera: Flying Camera PCB Size: 500×400mm
 Normal CPH: 16000 Motor/Drive: Servo System
 Mounting Head Structure: Independent Direct Drive
 Transmission Main Shaft: Ground Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen

120mm Marble Countertop



WS-8Y

Model: WS-8Y Number of Mounting Heads: 8
 Feeder Slots: 70 Positioning Accuracy: 0.02mm
 Camera: Flying Camera PCB Size: 500×400mm
 Normal CPH: 16000 Motor/Drive: Servo System
 Mounting Head Structure: Ball Spline
 Transmission Main Shaft: Ground Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen



BC-6Y

Model: BC-6Y Number of Mounting Heads: 6
 Feeder Slots: 66 Positioning Accuracy: 0.02mm
 Camera: Flying Camera PCB Size: 500×400mm
 Normal CPH: 12000 Motor/Drive: Servo System
 Mounting Head Structure: Independent Direct Drive
 Transmission Main Shaft: Ground Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen



WS-8N

Model: WS-8N Number of Mounting Heads: 8
 Feeder Slots: 70 Positioning Accuracy: 0.02mm
 Camera: Flying Camera PCB Size: 500×400mm
 Normal CPH: 16000 Motor/Drive: Servo System
 Mounting Head Structure: Ball Spline
 Transmission Main Shaft: Ground Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen

120mm marble countertop, supporting NXT Feeder



ZB4050LS

Model: ZB4050LS Number of Mounting Heads: 6
 Feeder Slots: 64 Positioning Accuracy: 0.02mm
 Camera: Fixed Camera PCB Size: 500×400mm
 Normal CPH: 11000 Motor/Drive: Servo System
 Mounting Head Structure: Swing Hip Drive
 Transmission Main Shaft: Ball Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen



WS-8S

Model: WS-8S Number of Mounting Heads: 8
 Feeder Slots: 70 Positioning Accuracy: 0.02mm
 Camera: Flying Camera PCB Size: 500×400mm
 Normal CPH: 16000 Motor/Drive: Servo System
 Mounting Head Structure: Ball Spline
 Transmission Main Shaft: Ground Screw + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen

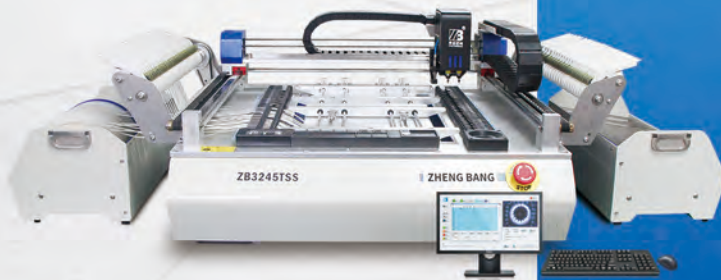
120mm marble countertop, supporting Samsung Feeder

SELECTION OF SMT MACHINE SERIES



ZB3545TP

Model: ZB3545TP Number of Mounting Heads: 4
 Feeder Slots: 38 Positioning Accuracy: 0.05mm
 Number of Cameras: 6 PCB Size: 350×450mm
 Normal CPH: 5000 Motor/Drive: Stepper Servo
 Transmission Main Shaft: Synchronous Belt + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen
 Visual Correction: CCD High-Definition Camera
 + 4 Sets of Quick Cameras



ZB3245TSS

Model: ZB3245TSS Number of Mounting Heads: 2
 Feeder Slots: 54 Positioning Accuracy: 0.05mm
 Number of Cameras: 4 PCB Size: 320×450mm
 Normal CPH: 3500 Motor/Drive: Stepper Servo
 Transmission Main Shaft: Synchronous Belt + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen
 Visual Correction: CCD High-Definition Camera
 + 2 Sets of Quick Cameras



PPM-A320VC

Model: PPM-A320VC Number of Mounting Heads: 2
 Feeder Slots: 54 Positioning Accuracy: 0.05mm
 Number of Cameras: 4 PCB Size: 320×450mm
 Normal CPH: 3500 Motor/Drive: Stepper Servo
 Transmission Main Shaft: Synchronous Belt + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen
 Visual Correction: CCD High-Definition Camera
 + 2 Sets of Quick Cameras

Flip Dust Cover



ZB3245TS

Model: ZB3245TS Number of Mounting Heads: 2
 Feeder Slots: 27 Positioning Accuracy: 0.05mm
 Number of Cameras: 2 PCB Size: 320×450mm
 Normal CPH: 3000 Motor/Drive: Step Servo
 Transmission Main Shaft: Synchronous Belt + Linear Guide
 Control Configuration: Industrial Computer + 19" Display Screen
 Visual Correction: CCD Gaotao Camera



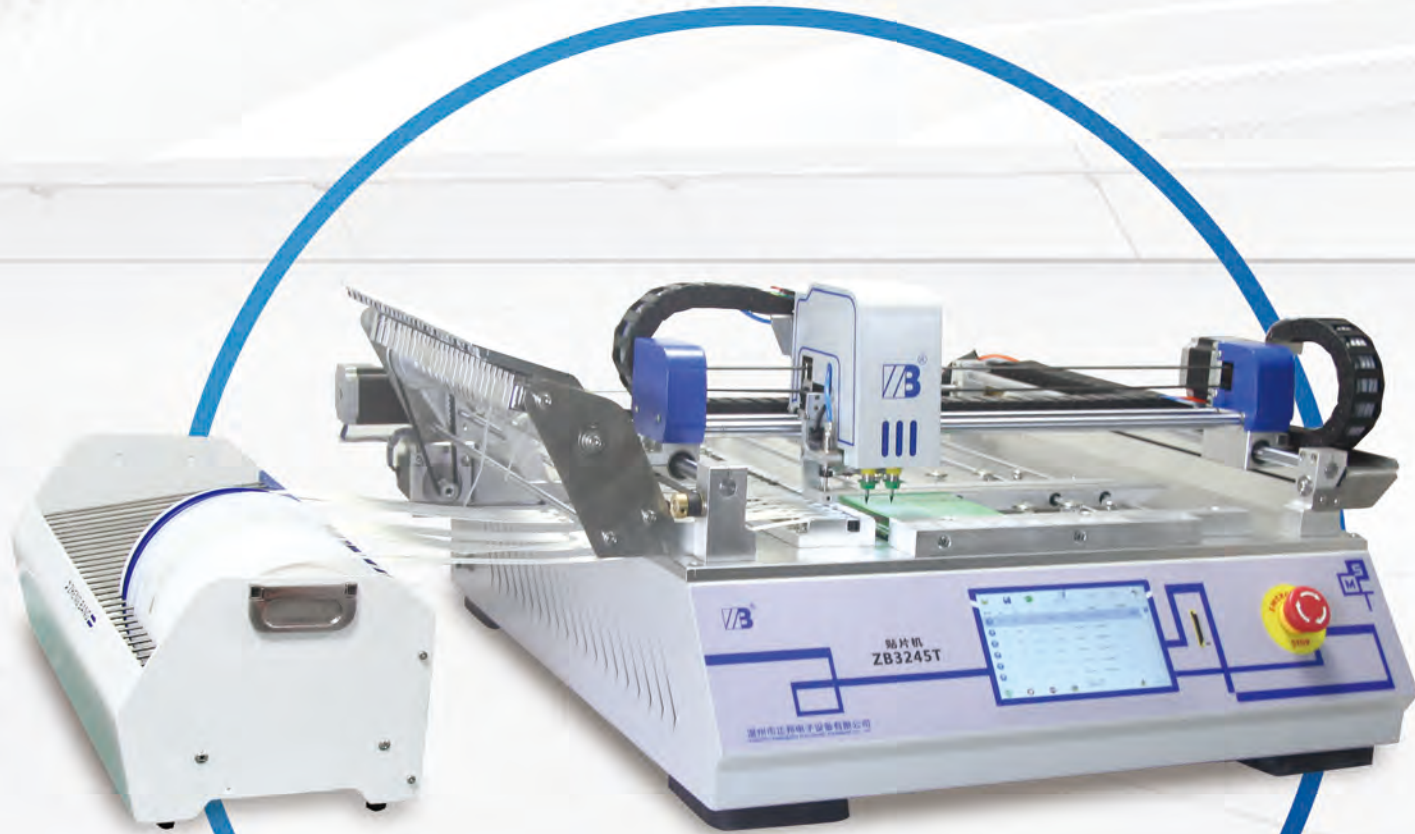
ZB3245T

Model: ZB3245T Number of Mounting Heads: 2
 Feeder Slots: 27 Positioning Accuracy: 0.05mm
 Number of Cameras: None PCB Size: 320×450mm
 Normal CPH: 4000 Motor/Drive: Stepper
 Transmission Main Shaft: Synchronous Belt + Optical Axis
 Control System: Built-in MCU + 7" Touch Screen
 Visual Correction: None

ZB3245T

Desktop Pick and Place Machine

ZB series placement machine main features: Small volume, easy operate, run stable and price affordable. They can mount 0402, 0603, 0805, 1206, 1210, 3528, 5050, SOP and QFN etc chips precise. These machines can help to avoid the unstable performance because of manual mounting and reduce the rent cost, improve the product capacity at the same time.



TECHNICAL PARAMETER

Model	ZB3245T	16 mm	2PCS
Mounting Numbers	2 PCS	24 mm	1PCS
Mounting Precision	0.05mm	Preposition IC Material Level	8PCS
Mounding Angle	0~360°	Tubular Materials Feeder	ZB Customized Feeder(Optional)
Theoretical Speed	4000	X/Y Axis Moving Range	410×490mm
Normal CPH	4000	Operational Software	Embedded HRM System
Nozzle Type	Juki Series Nozzle	Compatible File Format	CSV、TXT.format
SMD Height	≤5.5mm	Program Method	Support Online and Offline Ways
PCB Minimal Size	10×10mm	Air Pressure	0.4 Mpa
PCB Maximum Size	320×450mm	Vacuity Degree	-92kpa
PCB Thickness	≤2mm	Storage	8G(Kingston SD Card)
Type	27 types of ribbon materials: (8mm x 20 types, 12mm x 4 types, 16mm x 2 types, 24mm x 1 type) supports customization	Power	150W
8 mm	20PCS	Power Supply	AC220V±10% 50Hz
12 mm	4PCS	Main Engine Outline Size	L800×W780×H380mm
Applicable Element	RC (0603,0805,1206 etc) LED Lamp Beads (0603,0805,3014,5050 etc) Chip (SOT,SOP etc)	Materials Feeder Outline Size	L235×W700×H245mm
		Weight	50kg



Double mounting head mounting

Dual Mounting Heads 360
Degrees Rotate by Any
Angles



Dual Mark point positioning function

Dual Mark Point Positioning
Function



Cross laser positioning

Cross Laser Positioning



Vacuum negative pressure detection

Vacuum Negative Pressure
Detection

ZB3245TS

Desktop Pick and Place Machine

The ZB series mounter is suitable for small and medium-sized enterprises' mass production, experimental development, sample trial production and school teaching and so on. The design concept of the machine is to meet the needs of the vast number of small and medium customers, with the rapid and accurate mounting, easy operation, stable running and affordable price. It has a very high performance-price ratio and is your best choice!



TECHNICAL PARAMETER

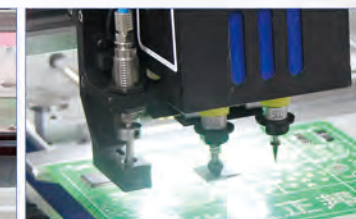
Model	ZB3245TS	X/Y Axis Moving Range	430×530mm
Mounting Numbers	2PCS	Z-Axis Rotation Angle	0~360°
Mounting Precision	0.05mm	Visual Camera	CCD High-definition Camera
Mounding Angle	0~360°	Numbers of Visual	Parts Camera×1、PCB Camera×1
Normal CPH	3000	Recognition Capability	MAX.22×22mm
Suction Nozzle Type	Juki Series Nozzle	PC System	Microsoft WIN7
SMD Height	≤5.5mm(Customize ≤11mm)	Operational Software	R & D
PCB Minimal Size	10×10mm	Compatible File Format	CSV. Format
PCB Maximum Size	320×450mm	Program Method	Support Online and Offline Ways
PCB Thickness	≤2mm	Air Pressure	0.4 Mpa
Type	27 types of ribbon materials: (8mm x 20 types, 12mm x 4 types, 16mm x 2 types, 24mm x 1 type) supports customization	Vacuity Degree	-92kpa
Front IC Location	10PCS	Power	150W
Back IC Tray	1PCS	Power Supply	AC220V±10% 50Hz
Vibration Feeder	ZB Customized Feeder(Optional)	Main Engine Outline Size	L830×W730×H375mm
Applicable Element	RC (0201,0402,0603,0805,1206 etc) LED Lamp Beads (0603,0805,3014,5050 etc) Chip (SOT,SOP,QFN,BGA etc)	Materials Feeder Outline Size	L235×W470×H245mm
		Weight	56kg


Stepping Servo Motor

Realize closed-loop control of position, speed, and torque Control and overcome the problem of stepping motor out of step


CCD industrial camera

High resolution CCD industrial dual camera, correcting material deviation, improving the reliability of mounting


Double mounting head mounting

Double head design, achieving fast mounting of small components and integrated IC components


Built in industrial computer

Embedded industrial control PC and Windows system, simple and convenient operation, stable performance

ZB3245TSS

Desktop Pick and Place Machine

The ZB3245TSS series mounter with 2heads ,can pick and place at the same time. Independent 54 feeder station, 19"Dell display, multiple sets of high resolution CCD industry dual camera vision.The transmission mechanism is equipped with high precision synchronous belt.and Linear Guideway, stepping servo motor.support CSV. document edit. Maximum PCB 320*450mm, suit for general resistance capacity



TECHNICAL PARAMETER

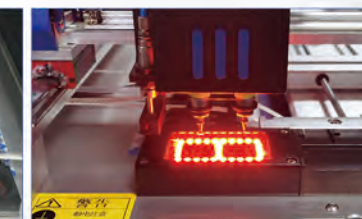
Model	ZB3245TSS	X/Y Axis Moving Range	430×530mm
Mounting Numbers	2PCS	Z Axis Rotation Angle	0~360°
Mounting Precision	0.05mm	Visual Camera	CCD High-definition Camera
Mounding Angle	0~360°	Numbers of Visual	Parts Camera×3、PCB Camera×1
Normal CPH	3500	Recognition Capability	MAX.22×22mm
Suction Nozzle Type	Juki Series Nozzle	PC System	Microsoft WIN7
SMD Height	≤5.5mm(Customize ≤11mm)	Operational Software	R & D
PCB Minimal Size	10×10mm	Compatible File Format	CSV. Format
PCB Maximum Size	320×450mm	Program Method	Support Online and Offline Ways
PCB Thickness	≤2mm	Air Pressure	0.4 Mpa
Type	54 types of ribbon materials: (8mm x 40 types, 12mm x 8 types, 16mm x 4 types, 24mm x 2 type) supports customization	Vacuity Degree	-92kpa
Front IC Location	10PCS	Power	230W
Back IC Tray	1PCS	Power Supply	AC220V±10% 50Hz
Vibration Feeder	ZB Customized Feeder(Optional)	Main Engine Outline Size	L990×W730×H375mm
Applicable Element	RC (0201,0402,0603,0805,1206 etc) LED Lamp Beads (0603,0805,3014,5050 etc) Chip (SOT,SOP,QFN,BGA etc)	Materials Feeder Outline Size	L235×W470×H245mm
		Weight	85kg


Stepping Servo Motor

Realize closed-loop control of position, speed, and torque Control and overcome the problem of stepping motor out of step


54 bit material stack

54 bit material stack, meeting diverse mounting requirements, supporting multiple feeders


Double mounting head mounting

Two sets of recognition camera designs to achieve high-speed recognition and inspection of mounted components


Built in industrial computer

Embedded industrial control PC and Windows system, simple and convenient operation, stable performance

ZB3545TP

Desktop Pick and Place Machine

It is with Multi-group industrial CCD camera solution, identification and correction system, 4 head pick and place at the same time. PC monitor, 19 inch Dell display. For the transmission structure, machine with HIWIN linear guider, Japanese belt, can achieve long term high precision and stable mounting. Maximum support 38 pcs of 8mm YAMAHA CL feeder stations. Also CSV, TXT coordinate file can be adopted. The maximum PCB size allowed: 350*450mm, normally it is used for normal resistance, capacitance LED, chips, BGA, etc. Mainly used for small production and prototyping business, with self-designed operating system for developers



TECHNICAL PARAMETER

Model	ZB3545TP	Z Axis Moving Range	12mm
Mounting Numbers	4PCS	Visual Camera	CCD High-definition Camera
Mounting Precision	0.05mm	Numbers of Visual	PCB Camera×1、 Precision Identification Camera×1、 High Speed Identification Camera×4
Mounding Angle	0~360°	Recognition Capability	MAX.22×22mm
Normal CPH	5000	PC System	Microsoft WIN7
Suction Nozzle Type	Juki Series Nozzle	Operational Software	R & D
SMD Height	≤6mm(Customize ≤11mm)	Compatible File Format	CSV. Format
PCB Minimal Size	10×10mm	Program Method	Support Online and Offline Ways
PCB Maximum Size	350×450mm	Air Pressure	0.8 Mpa
PCB Thickness	≤2mm	Vacuity Degree	Vacuum Generator
Feeder Type	YAMAHA CL Feeder	Air Pressure	-80kpa
Feeder	8mm,12mm,16mm,24mm,32mm	Power	500W
Feeder Locations	38 Feida hole positions	Power Supply	AC220V±10% 50Hz
Vibration Feeder	YAMAHA YV Feeder	Outline Size	L1185×W840×H560mm
IC Tray	Front 1 Piece	Weight	123kg
X/Y Axis Moving Range	655×575mm	Applicable Element	RC (0201,0402,0603,0805,1206 etc) LED Lamp Beads (0603,0805,3014,5050 etc) Chip (SOT,SOP,QFN,BGA etc)


Stepping+servo system

Step servo system was adopted to improve the machine reliability and never loose step.


CCD high-definition recognition camera

Multi-grouped industrial CCD camera solutions are adopted to improve efficiency and precision.


Upper silver slide rail+imported belt

HIWIN Linear Guide generates long term of high precise performance.


Four sets of fast recognition cameras

To improve the machine adaptability, it is adopted 4 head synchronous identification and mounting solution.

ZB4050LS (Rolling)
ZB4050LY (Grinding)

ZB4050 mounting machine adopted built-in WIN7 system industrial control computer, eight sets of high-resolution CCD industrial camera vision correction system, online 6-head synchronous calibration production placement.

The transmission mechanism is equipped with Panasonic high-resolution servo drive and motor, silver linear guide, and TBI ball screw to maintain long-term high-precision and stable placement. 64 PCS of YAMAHA pneumatic feeder station, support CSV coordinate file import and editing, maximum 500*400mm PCB placement. It is suitable for high-precision placement of conventional resistance, LED lamp beads, IC, BGA and other components, suitable for automated mass production.

VERTICAL VISION PICK AND PLACE MACHINE (6-HEAD)

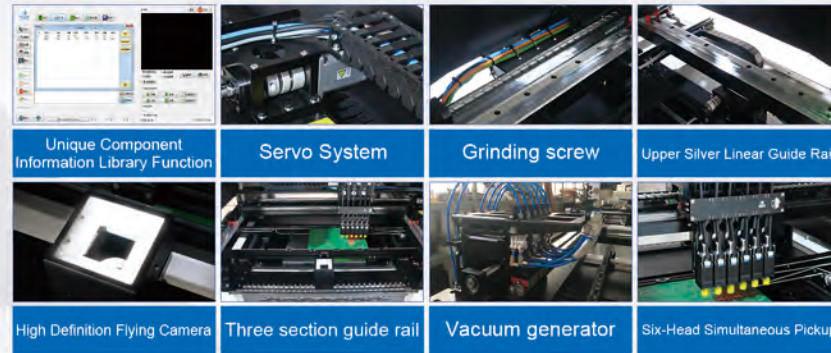
TECHNICAL PARAMETER

Model	ZB4050LS/ZB4050LY	Width Adjustment Structure	Synchronous Belt + Linera Slide Rail
Mounting Numbers	6 Heads (Three-Head Simultaneous Pickup)	Width Adjustment Method	One Click Width Adjustment
Positioning Accuracy	0.02mm	Top Plate Structure	Top pin cylinder
Mounting Precsisian	±0.05mm	Supported Types	Yamaha Pneumatic CI Model, Electric YV Model, Tube Feeder, etc.
Mounding Angle	0~360°	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm etc.
Theoretical Mounting Speed	15000	Number of Component Positions	64 Positions
Normal CPH	11000	IC Tray Positions	2 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	639mm*656mm
Component Packaging	Tray Loading/Tube Loading/ Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	15mm
SMD Height	≤6mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	CCD High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera×1、 Precision Identification Camera×1、 High Speed Identification Camera×6
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×250 mm	PC System	Microsoft WIN7
PCB Thickness	≤2mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤1mm	Compatible File Formats	.CSV.Format
XY drive system	Servo Drive + Motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	External Air Source	0.8Mpa
Y drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	Vacuum Generation Method	Vacuum Generator
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80kpa
Z-Axis motion Structure	Swing arm drive	Safety Protection	Feeder Lift Protection,Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Independent Direct Drive	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Aluminum Guide Rail	Power	Rated Power 1.5Kw, Working Power 0.35Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50Hz
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1335 × W 1200 × H 1390 mm
Conveying Direction	L→R (Customize Support)	Weight	440kg
Compatible Components	Resistance and capatitance (0201, 0402, 0603, 0805, 1206, etc.), Led Lamp Beads,Diodes, Mos Tubes,Electrolytic Capacitors, Irregular Components,etc. Chips(SOT,SOP,QFN,BGA,etc.)		

BC-6Y

The BC-6Y placement machine uses an independent direct-drive structure for the mounting heads, supporting simultaneous pickup with 6 heads. It is equipped with Panasonic high-resolution servo drive and motor, imported linear guide rails, and imported ground ball screws, ensuring long-term high-precision and stable mounting. It features a built-in industrial computer, high-definition Ethernet flying camera vision correction system. With 56 feeder positions, it supports CSV coordinate file import and can accommodate PCB mounting up to 400*500 mm. Suitable for precise mounting of standard resistors, chips, irregular components, ultra-high devices, and extra-large components, it is ideal for automated mass production.

VERTICAL VISION PICK AND PLACE MACHINE (6-HEAD)



TECHNICAL PARAMETER

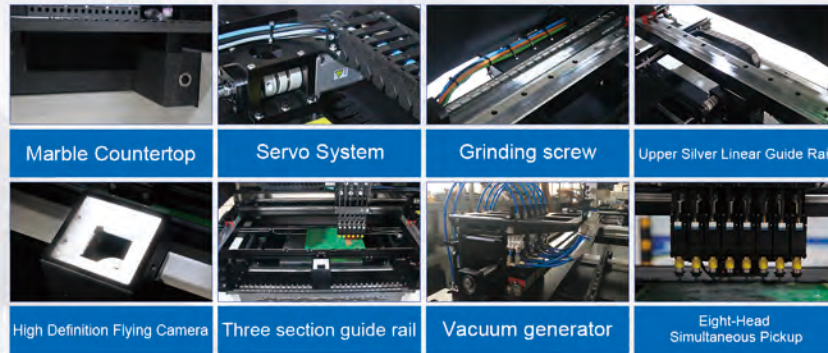
Model	BC-6Y	Width Adjustment Structure	Synchronous Belt + Linera Slide Rail
Mounting Numbers	6 Heads (Six-Head Simultaneous Pickup)	Width Adjustment Method	Automatic Width Adjustment
Positioning Accuracy	0.02mm	Top Plate Structure	Cylinder Tray + Movable Needle
Mounting Precsisian	±0.05mm	Supported Types	Yamaha Pneumatic CI Model, Electric YV Model, Tube Feeder, etc.
Mounding Angle	0~360°	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm etc.
Theoretical Mounting Speed	21000	Number of Component Positions	66 Positions
Normal CPH	12000	IC Tray Positions	2 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	620mm*700mm
Component Packaging	Tray Loading/Tube Loading/ Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	27mm
SMD Height	≤13mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	Industrial Ethernet High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera X1、 Flying Probe Camera X1
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	Flying Probe + High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×220 mm	PC System	Microsoft WIN10
PCB Thickness	≤2mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤1mm	Compatible File Formats	.CSV.Format
XY drive system	Panasonic Servo Drive + Motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	External Air Source	0.8Mpa
Y drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	Vacuum Generation Method	Vacuum Generator
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80kpa
Z-Axis motion Structure	Independent Direct Drive	Safety Protection	Feeder Lift Protection,Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Independent Direct Drive	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Aluminum Guide Rail	Power	Rated Power 1.5Kw, Working Power 0.35Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50Hz
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1310 × W 1220 × H 1450 mm
Conveying Direction	L→R (Customize Support)	Weight	680kg
Compatible Components	Resistance and capatitance (0201, 0402, 0603, 0805, 1206, etc.), Led Lamp Beads,Diodes, Mos Tubes,Electrolytic Capacitors, Irregular Components,etc. Chips(SOT,SOP,QFN,BGA,etc.)		

BC-8Y

The BC-8Y surface mount machine adopts an independent direct connection structure for the mounting heads, supporting synchronous feeding of 8 mounting heads. Equipped with Panasonic high-resolution servo drive and motor, imported linear guide rail, and imported grinding screw, it can maintain long-term high-precision and stable mounting. Built in industrial computer, high-definition Ethernet flight camera visual correction system. Using a 120mm marble base for stable operation, supporting CSV coordinate file import, and supporting up to 400 * 500mm PCB mounting.

Suitable for precision and high-speed mounting of various shaped components, suitable for automated mass production.

VERTICAL VISION PICK AND PLACE MACHINE (6-HEAD)



TECHNICAL PARAMETER

Model	BC-8Y	Width Adjustment Structure	Synchronous Belt + Linera Slide Rail
Mounting Numbers	8 Heads (Eight-Head Simultaneous Pickup)	Width Adjustment Method	Automatic Width Adjustment
Positioning Accuracy	0.02mm	Clamping Method	Top lifting clamp
Mounting Precsisian	±0.05mm	Top Plate Structure	Cylinder support plate+movable ejector pin
Mounding Angle	0~360°	Supported Types	Flexible vibration feeding system
Theoretical Mounting Speed	28000	Supported Specifications	Customize according to product requirements
Normal CPH	16000 (Customized According to Actual Product)	Number of Component Positions	1 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	620MM*700MM
Component Packaging	Tray Loading/Tube Loading/ Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	27MM
SMD Height	≤13mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	Industrial Ethernet High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera X1. Flying Probe Camera X1
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	Flying Probe + High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×220 mm	PC System	Microsoft WIN10
PCB Thickness	≤2mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤1mm	Compatible File Formats	.CSV.Format
XY drive system	Panasonic Servo Drive + Motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	External Air Source	0.8MPA
Y drive Structure	Single-Drive Direct-Connected Dual Linear Guide Rail+ High-Strength Aerospace Aluminum	Vacuum Generation Method	Vacuum Generator
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80KPA
Z-Axis motion Structure	Independent Direct Drive	Safety Protection	Feeder Lift Protection,Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Independent Direct Drive	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Aluminum Guide Rail	Power	Rated Power 1.5Kw, Working Power 0.35Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50HZ
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1310 × W 1220 × H 1450 MM
Conveying Direction	L→R (Customize Support)	Weight	960KG
		Compatible Components	Support various types of irregular and bulk products

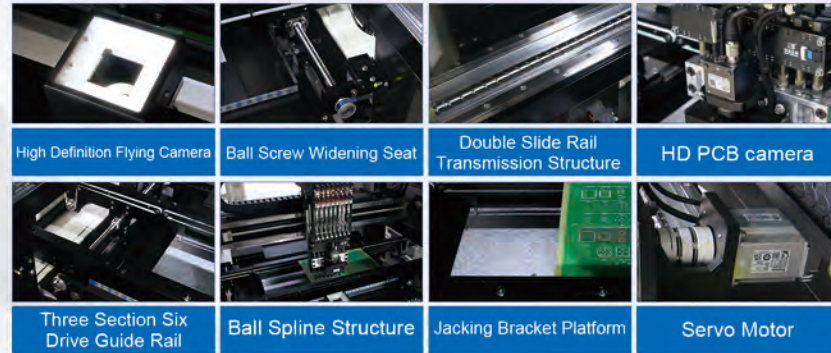
WS-8Y

The WS-8Y placement machine features a ball spline structure for the mounting heads, supporting simultaneous pickup with 8 heads. The transmission mechanism is equipped with Panasonic high-resolution servo drive and motor, THK linear guide rails, and THK ground ball screws, ensuring long-term high-precision and stable mounting.

The conveying structure adopts super-flat aluminum guide rails, and the three-stage six-drive conveying mechanism ensures smooth and stable board transfer. It includes a built-in industrial computer and a high-definition Ethernet flying camera vision correction system. With 70 feeder positions, it supports CSV coordinate file import and can accommodate PCB mounting up to 400*500 mm.

Suitable for precise mounting of standard resistors, chips, irregular components, ultra-high devices, and extra-large components, it is ideal for high-speed automated production requirements.

VERTICAL VISION PICK AND PLACE MACHINE (8-HEAD)



TECHNICAL PARAMETER

Model	WS-8Y	Width Adjustment Structure	Dual Ground Ball Screws + Linear Slide Rail
Mounting Numbers	8 Heads (Eight-Head Simultaneous Pickup)	Width Adjustment Method	Automatic Width Adjustment
Positioning Accuracy	0.02mm	Top Plate Structure	Cylinder Tray + Movable Needle
Mounting Precision	±0.05mm	Supported Types	Yamaha Pneumatic CI Model, Electric YV Model, Tube Feeder, etc.
Mounting Angle	0~360°	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm etc.
Theoretical Mounting Speed	30000	Number of Component Positions	70 Positions
Normal CPH	16000	IC Tray Positions	1 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	630mm*700mm
Component Packaging	Tray Loading/Tube Loading/Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	27mm
SMD Height	≤13mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	Industrial Ethernet High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera X1、Flying Probe Camera X1
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	Flying Probe + High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×260 mm	PC System	Microsoft WIN10
PCB Thickness	≤3mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤2mm	Compatible File Formats	.CSV.Format
XY drive system	Servo drive + motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-drive direct-connected dual linear guide rail + high-strength molded aluminum	External Air Source	0.8Mpa
Y drive Structure	Single-drive direct-connected triple linear guide rail + high-strength molded aluminum	Vacuum Generation Method	Built-in Oil-Free Vacuum Pump
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80kpa
Z-Axis motion Structure	Ball Spline	Safety Protection	Feeder Lift Protection, Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Synchronous Spline	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Super-Flat Aluminum Guide rail	Power	Rated Power 2Kw, Working Power 0.7Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50Hz
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1355 × W 1300 × H 1450 mm
Conveying Direction	L→R (Customize Support)	Weight	840kg
Compatible Components	Resistance and capacitance (0201, 0402, 0603, 0805, 1206, etc.), Led Lamp Beads, Diodes, Mos Tubes, Electrolytic Capacitors, Irregular Components, etc. Chips(SOT, SOP, QFN, BGA, etc.)		

WS-8N

The WS-8N surface mount machine adopts a ball spline structure for the mounting head, which supports synchronous feeding of 8 mounting heads.

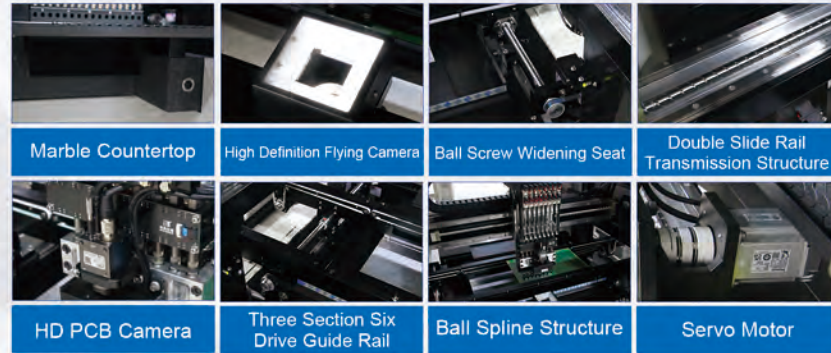
The transmission mechanism is equipped with Panasonic high-resolution servo drive and motor, THK linear guide rail, THK grinding screw, which can maintain long-term high-precision and stable mounting.

The transfer plate structure adopts ultra flat aluminum guide rails, and the three-stage six drive transfer plate is stable and stable. Built in industrial computer, high-definition Ethernet flight camera visual correction system.

Using a 120mm marble base for stable operation, with 70 feeding and delivery positions, supporting NXT delivery, CSV coordinate file import, and maximum support for 400 * 500mm PCB mounting.

Suitable for precision and high-speed mounting of various shaped components, suitable for automated mass production.

VERTICAL VISION PICK AND PLACE MACHINE (8-HEAD)



TECHNICAL PARAMETER

Model	WS-8N	Width Adjustment Structure	Dual Ground Ball Screws + Linear Slide Rail
Mounting Numbers	8 Heads (Eight-Head Simultaneous Pickup)	Width Adjustment Method	Automatic Width Adjustment
Positioning Accuracy	0.02mm	Top Plate Structure	Cylinder Tray + Movable Needle
Mounting Precsisian	±0.05mm	Supported Types	Yamaha Pneumatic CI Model, Electric YV Model, Tube Feeder, NXT Feeder etc.
Mounding Angle	0~360°	Supported Specifications	8mm, 12mm, 16mm, 24mm, 32mm, 44mm etc.
Theoretical Mounting Speed	30000	Number of Component Positions	70 Positions
Normal CPH	16000	IC Tray Positions	1 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	630mm*700mm
Component Packaging	Tray Loading/Tube Loading/ Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	27mm
SMD Height	≤13mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	Industrial Ethernet High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera X1、 Flying Probe Camera X1
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	Flying Probe + High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×260 mm	PC System	Microsoft WIN10
PCB Thickness	≤3mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤2mm	Compatible File Formats	.CSV.Format
XY drive system	Servo drive + motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-drive direct-connected dual linear guide rail + high-strength molded aluminum	External Air Source	0.8Mpa
Y drive Structure	Single-drive direct-connected triple linear guide rail + high-strength molded aluminum	Vacuum Generation Method	Built-in Oil-Free Vacuum Pump
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80kpa
Z-Axis motion Structure	Ball Spline	Safety Protection	Feeder Lift Protection, Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Synchronous Spline	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Super-Flat Aluminum Guide rail	Power	Rated Power 2Kw, Working Power 0.7Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50Hz
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1355 × W 1300 × H 1450 mm
Conveying Direction	L→R (Customize Support)	Weight	1080kg
Compatible Components	Resistance and capatitance (0201, 0402, 0603, 0805, 1206, etc.), Led Lamp Beads, Diodes, Mos Tubes, Electrolytic Capacitors, Irregular Components, etc. Chips(SOT, SOP, QFN, BGA, etc.)		

WS-8S

The WS-8N surface mount machine adopts a ball spline structure for the mounting head, which supports synchronous feeding of 8 mounting heads.

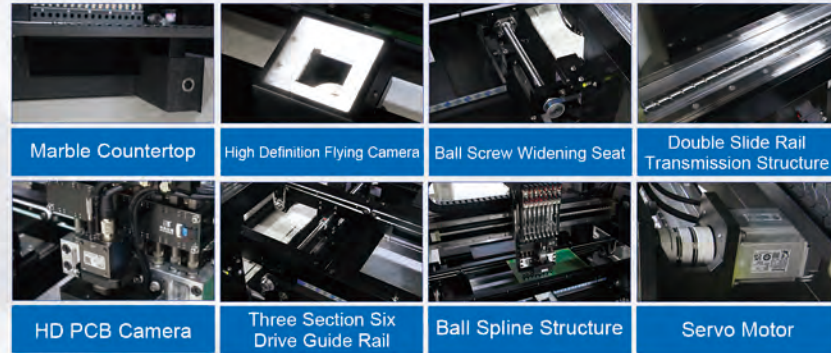
The transmission mechanism is equipped with Panasonic high-resolution servo drive and motor, THK linear guide rail, THK grinding screw, which can maintain long-term high-precision and stable mounting.

The transfer plate structure adopts ultra flat aluminum guide rails, and the three-stage six drive transfer plate is stable and stable. Built in industrial computer, high-definition Ethernet flight camera visual correction system.

Using a 120mm marble base for stable operation, with 70 feeding and delivery positions, supporting Samsung Fit, CSV coordinate file import, and maximum support for 400 * 500mm PCB mounting.

Suitable for precision and high-speed mounting of various shaped components, suitable for automated mass production.

VERTICAL VISION PICK AND PLACE MACHINE (8-HEAD)



TECHNICAL PARAMETER

Model	WS-8S	Width Adjustment Structure	Dual Ground Ball Screws + Linear Slide Rail
Mounting Numbers	8 Heads (Eight-Head Simultaneous Pickup)	Width Adjustment Method	Automatic Width Adjustment
Positioning Accuracy	0.02mm	Top Plate Structure	Cylinder Tray + Movable Needle
Mounting Precsisian	±0.05mm	Supported Types	Yamaha Pneumatic CI Model, Electric YV Model, Tube Feeder, Samsung Feeder etc.
Mounding Angle	0~360°	Supported Specifications	8mm, 12mm, 16mm, 24mm, 32mm, 44mm etc.
Theoretical Mounting Speed	30000	Number of Component Positions	70 Positions
Normal CPH	16000	IC Tray Positions	1 Positions
Suction Nozzle Type	Juki Series Nozzle	X, Y-Axis Travel Range	630mm*700mm
Component Packaging	Tray Loading/Tube Loading/ Tray Packaging/Vibrating Tray	Z-Axis Mounting Stroke	27mm
SMD Height	≤13mm(Customize ≤12mm)	R-Axis Rotation Angle	0~360°
Component Dimensions	≤40mm(Customize Support)	Vision Camera	Industrial Ethernet High-Definition Camera
PCB Minimal Size	45×45 mm	Number of Vision Cameras	Mark Camera X1、 Flying Probe Camera X1
Maximum Board Size (Without Tray)	500×400 mm	Recognition Method	Flying Probe + High-Definition Fixed Camera
Maximum Board Size (With Tray)	500×260 mm	PC System	Microsoft WIN10
PCB Thickness	≤3mm(Customize Support)	Operating Software	Self-Developed
Permissible Board Warpage	≤2mm	Compatible File Formats	.CSV.Format
XY drive system	Servo drive + motor	Programming Method	Support Online and Offline Ways
X drive Structure	Single-drive direct-connected dual linear guide rail + high-strength molded aluminum	External Air Source	0.8Mpa
Y drive Structure	Single-drive direct-connected triple linear guide rail + high-strength molded aluminum	Vacuum Generation Method	Built-in Oil-Free Vacuum Pump
XY Transmission Structure	Imported Ground Ball Screw + Imported Linear Slide Rail	Vacuum Value	-80kpa
Z-Axis motion Structure	Ball Spline	Safety Protection	Feeder Lift Protection, Slow Down Or Stop When Cover Is Opened
A-Axis motion Structure	Synchronous Spline	Upper and Lower Computer Interface	Standard SMEMA Connector
Conveying Structure	Super-Flat Aluminum Guide rail	Power	Rated Power 2Kw, Working Power 0.7Kw
Conveying Motor	Drive-Control Integrated Stepper Motor	Power Supply	AC220V±10% 50Hz
Conveying Method	Three-stage Six-Drive	Mainframe Dimensions	L 1355 × W 1300 × H 1450 mm
Conveying Direction	L→R (Customize Support)	Weight	1080kg
Compatible Components	Resistance and capatitance (0201, 0402, 0603, 0805, 1206, etc.), Led Lamp Beads, Diodes, Mos Tubes, Electrolytic Capacitors, Irregular Components, etc. Chips(SOT, SOP, QFN, BGA, etc.)		

Solder Paste Mixer

ZB500S Automatic Solder Paste Mixer makes solder cream move downward constantly through centrifugal force generated by revolution and cooperation with energy from rotation at 45 degree angle of axis of revolution. Solder cream located in the tank bottom makes upward movement from the surrounding, which forms a tornado-funnel shaped stirring action, and it can stir, soften and defoam the solder cream with appropriate viscosity. Solder cream has good wettability, even diffusivity, excellent printing effect after mixing, which achieves the best welding performance when reflowing soldering.



Appearance Design
Simpleness

Safety Device Rse
At Ease

Time Set Optional
Balance Stir

Simple Panel
Convenient to Operate

Specification

Model	ZB500S	Rated Power	Constant Speed 60W
Operating Speed	Motor Speed: 1350RPM	Working Power Supply	AC 220V±10% 50Hz
Operational Capability	0~500g*2Tanks	Outline Size	L400×W400×H500mm
Time Setting	0.01s~99h99s, Minute and Second Set	Weight	45kg
Display Mode	LED Digital Display	Acceptance of Solder Cream Pot	Tank diameter Φ60-Φ67 standard configuration (suitable for general 500 g solder cream bottle)

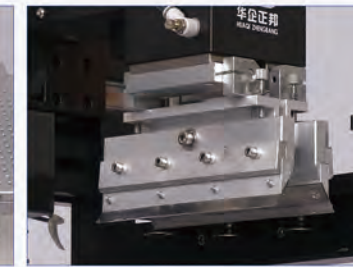
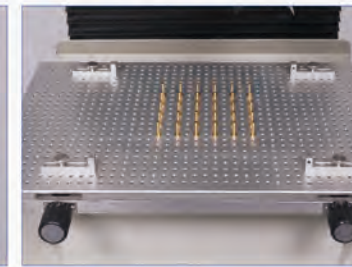


ZB3250LY

ZB32125LY

Solder Paste Printer

The main frame of ZB series semi-automatic solder paste printing machine adopts rigid structure, and the universal honeycomb cast aluminum table top realizes precise positioning of single-sided and special-shaped plates with high repeatability. The whole machine adopts PLC control system, Omron sensor and full color touch screen. The system is more stable and easy to operate. This product is suitable for solder paste and red glue printing on circuit boards, and is an indispensable equipment in the production process of SMT automated production line.



Double Knobs Starting
Design

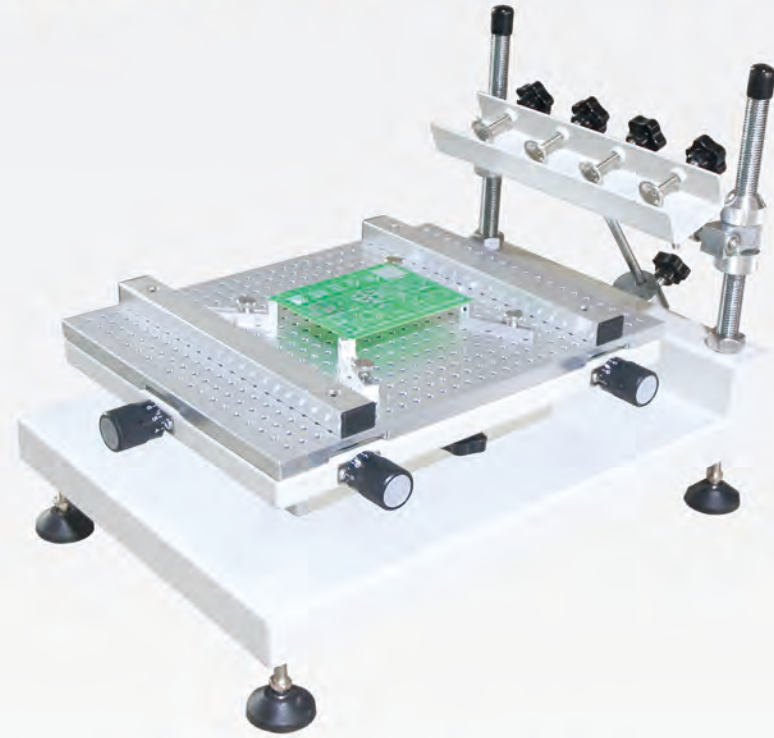
Multiple Functions
Printing Table

Two Blade Design

Full Color Touch Screen

Specification

Model	ZB3250LY	ZB32125LY
Size of Workbench	320*500mm	320*1250mm
Max. Printing Size	320*450mm	320*1200mm
Max. Stencil Size	920*576mm	1570*576mm
Outline Size	L1020*W750*H1670mm	L1670*W765*H1670mm
Weight	200KG	260KG
Repeat Precision	±0.05mm	Power Source AC220V±10% 50Hz
Compressed Air	8Kgf/cm ²	Power 100W
Work Altitude	130mm	



Silk Screen Printing Table

ZB3040H high precision stencil printer is mainly designed for the requirement of the single or double-side PCB soldering paste and red glue printing, the working platform is processed by cellular positional hole with high-quality aluminum and the pedestal is soldered by thick steel plate, steadiness and durability.



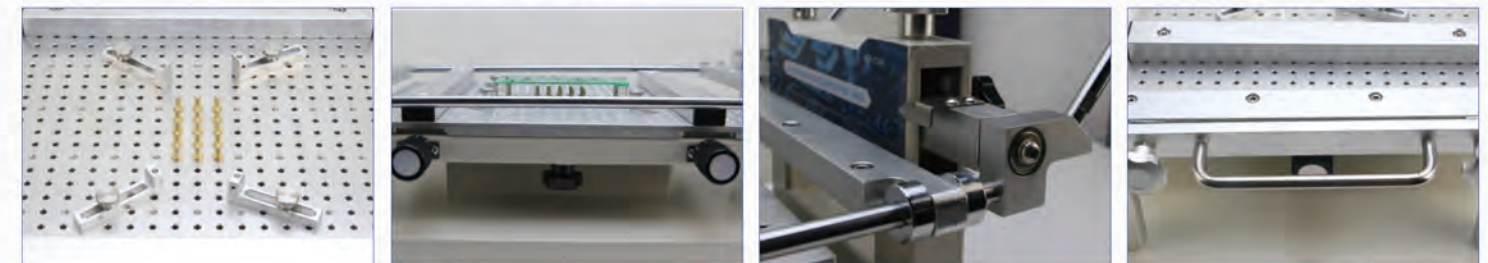
Flexible Positioning Fast and Strong Precision Fine-tuning Angle Adjustable

Specification			
Model	ZB3040H	Size of Workbench	300×400mm
Max. Printing Size	250×400mm	Max. Stencil Size	370×470mm
Vertical and Horizontal Adjustment Volume	10mm	Thickness of Printing Matter	0~80mm
Repeatability Precision	±0.01mm	Location Mode	Shape or Benchmark Hole
Outline Size	L540×W370×H380mm	Weight	23kg



Printing Table Frameless

The PTR-C300 series frameless printing table is a PCB solder paste printing equipment. It is a precision printing product which is designed for both single and double-sided PCB, and also can be used for solder paste and red glue. The printing table is specially designed for frameless printing.



Convenient positioning X, Y-axis precision fine adjustment Height Adjustable Fixed fast and secure

Specification			
Model	PTR-C300	Size of Workbench	300×400mm
Max. Printing Size	280×380mm	Max. Stencil Size	310×410mm
XYZ Axis Adjustment	15mm	Thickness of Printing Matter	0~20mm
Repeatability Precision	±0.01mm	Location Mode	Shape or Benchmark Hole
Outline Size	L620×W380×H300mm	Weight	24kg



Micro Board Loader

Micro PCB loading machine is used for PCB feeding at the beginning of SMT production line, with a small footprint, Easy to use and other advantages.

The circuit board can be placed directly without the need for a turnover rack for storage and delivery. The operation panel adopts True color touch screen, intuitive operation.



Triple screw width adjustment

Self assembling material rack

Color Screen Touch Operation Model

SMEMA Standard Signal

Specification

Applicable PCB board size (MM)	450* (50-250)
Applicable PCB thickness	0.6-3.0mm
Body size L * W * H (MM)	500*600*1500
Whole body weight	90KG
Source	AC:~220V±10% 50HZ
Starting power/no-load power	0.2kw
Operation control	Seven inch full-color touch screen
Fixed edge	Front fixation (can be customized as rear fixation)
Transmission direction	Regular left to right (or can be customized as right to left)
Transfer height	900±20mm

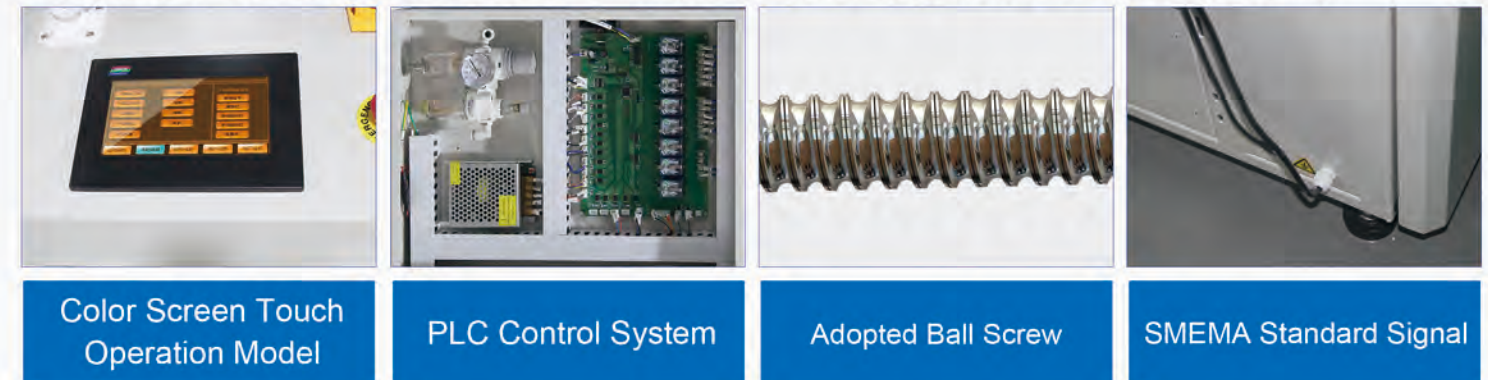


Automatic Unloader

Automatic Loader

PCB Loader and Unloader

The ZB series loader and unloader is used for PCB transfer at the beginning of SMT production line and PCB receiving and storage at the end of production line to the PCB rack. This machine adopts PLC programmable control system with ball screw, and the whole machine runs stably and accurately. The operation control panel adopts a true color touch screen, which is intuitive and easy to use. It is suitable for repeated transportation of single-sided or double-sided circuit boards, which greatly reduces labor costs and improves efficiency.



Color Screen Touch Operation Model

PLC Control System

Adopted Ball Screw

SMEMA Standard Signal

Specification

Name	Automatic Unloader	Automatic Loader
Model	ZB2535SBJ	ZB2535XBJ
Outline size	L1340×W790×H1200mm	L1650×W790×H1200mm
Weight	150KG	161KG
PCB Size	Max.350×250mm	Delivering Height 900±20mm
PCB Delivering Direction	L→R(R→L Optional)	Delivering Speed 0.16m/s
NOs of Rack	3PCS	Supply Power AC220V±10% 50Hz
Rack Size	L355×W320×H565mm	Air Pressure 0.6Mpa
Step Distance of Loading	10,20,30,40	Power 200W


 Five temperature zone
 Hot Air Reflow Soldering

 Six temperature zone
 Hot Air Reflow Soldering

 Eight temperature zone
 Hot Air Reflow Soldering

 Twelve temperature zone
 Hot Air Reflow Soldering

Mesh Belt Hot Air Reflow Soldering

ZBHW330 reflow soldering adopts infrared radiation heating, which is suitable for the production of small batches of single circuit boards. ZBRF530, ZBRF630 and ZBRF830 reflow soldering all use stainless steel heaters which are resistant to high temperature and corrosion, combined with the hot air circulation system to make full use of heat, rapid heating and high thermal efficiency. Accurate and stable temperature control, suitable for SMT small and medium batch production welding.


 Full-Color HMI
 Human-Computer
 Interface(Touch Screen)

 Liner Hearth Use Industrial
 Grade Anti High Temperature
 and Corrosion Panel Paint

 High-Efficiency
 Energy-Saving Heating Tube

Specification				
Model	ZBRF530	ZBRF630	ZBRF830	ZBRF1230/ZBRF1230-PC
Heat Zone Numbers	5 Zones (Up 3+Down 2) 6 Zones (Up 3+Down 3)		8 Zones (Up 4+Down 4) 12 Zones (Up 6+Down 6)	
Length of Heating Zones	960mm	1060mm	1400mm	2080mm
Height of Net Belt	300±20mm		880±20mm	
Input Supply Power	AC220V/AC380V ±10% 50Hz		AC380V ±10% 50Hz	
Starting Power	7KW	9KW	11KW	14W
Working Power	2.5KW	3KW	3.5KW	5KW
Method of Temperature Control	PID Close Cycle Control		Touch Screen Control (PID Close-Cycle Calculate Method)	
Outline Size	L1700×W710×H660mm L2100×W680×H1200mm L2440×W680×H1200mm L3500×W710×H1250mm			
Weight	150kg	215kg	250kg	450kg
Heat Method	Hot wind			
Width of Net Belt	300mm			
Allow PCB Height	<20mm (Customize)			
Transport Direction of	L→R(R→L)			
Transit time	3.5~5.5 mins			
Cooling Zone Numbers	Two Natural Air Cooling			
Allow PCB width	Max. 280mm			
Transport Speed	160-1350mm/min			
Heating up Time	15~20 mins			
Temperature Control	Indoor Temperature~400 Degrees			



Hot air Eight Temperature Zone Rail Type Reflow Soldering



Hot air Twelve Temperature Zone Rail Type Reflow Soldering

Rail Type Hot Air Reflow Oven

ZBRF series Online reflow oven supports two transmission modes: mesh and conveyor, and can be connected to the pick and place machine and the PCB loader and unloader machines to realize automatic welding. This series of products have the characteristics of high efficiency, connectivity, and low investment.

The heaters use of high-efficiency and energy-saving finned heating tubes, combined with the hot air circulation system, makes full use of the heat evenly distributed, and improves the welding effect. The split fume exhaust furnace is more effective to eliminate the fumes generated during the welding process.

TECHNICAL PARAMETER

Model	ZBRF835	ZBRF1235	
Heat Zone Numbers	8 Zones (Up 4+Down 4)	12 Zones (Up 6+Down 6)	
Heat Method	Hot Wind		
Length of Heating Zones	1400mm	2060mm	
Starting Power	15KW	22KW	
Working Power	3KW	4.5KW	
Outline Size	L2720×W820×H1360mm	L3380×W820×H1360mm	
Weight	450kg	560kg	
Hot Wind	Variable frequency air supply	Transportation Speed	160~1350mm/min
Cooling Zone Numbers	Three Natural Air Cooling	Transportation Method	Digital Speed Control
Mesh Width	450mm	Transport Direction	L→R(R→L)
Conveyor Width	350mm	Chain Dripping	Timing Automatic Dripping
Allow PCB width	Max. 350mm	Input Supply Power	AC220V/AC380V ±10% 50Hz
Allow PCB width	No Limited	Heating up Time	15~20 mins
Allow PCB Height (Mesh)	50mm	Transit Time	3.5~5.5 mins
Allow PCB Height (Conveyor)	25mm	Temperature control range	Room temperature~350°C
The Height of the mesh from the ground	880±20mm	Method of Temperature Control	PID Close-Cycle Calculate Method
The Height of the conveyor from the ground	900±20mm		



Touch Screen



Deliver Both By Rail Way And Chain



Available Connect To The Conveyor



Auto-drip Oil Cup



Stainless Steel Furnace



Split Type Smoke Exhaust



High efficiency and energy saving heater



Width Manual Adjustment



Precision Lead-Free Reflow Oven

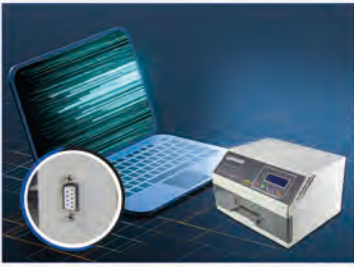
The ZBHL series reflux furnace adopts 3D hot air circulation and ultra strong infrared radiation heating, which ensures balanced internal heat flow and adapts to the reflux requirements of different alloys and lead-free solder. Suitable for design and development, experimental teaching, and small-scale production and processing.



Liquid Crystal Display(LCD)



Infrared Heating Tube



PC On-line Operate



3D Hot Wind Recycle

Specification

Model	ZB2015HL	ZB2520HL	ZB3530HL	ZB5040HL
Power Supply	AC220V ±10% 50Hz (AV110V Custom-Made)			
Max Power	700W	1600W	2400W	3600W
Heating Method	Infrared Radiation Heating	Infrared Radiation Heating & Hot Air Circulation		
Effective Welding Area	200mm×150mm	250mm×200mm	350mm×300mm	500mm×400mm
Drawer Size	L250×W180×H20mm	L300×W250×H30mm	L400×W330×H30mm	L550×W430×H30mm
Operating System	Chinese and English Bilingual Language Operate System			
Display Mode	Graph Mode/Text Mode and Display Mode Optional			
Temperature Curve Zones	Preheating Zone, Heating Zone, Holding Zone and Cooling Zone Totally Five Zones			
Outline Size	L375×W350×H312mm	L425×W400×H312mm	L525×W500×H312mm	L675×W600×H312mm
Weight	13.5kg	19kg	24.9kg	37.1kg



(No lamp holder)

(With lamp holder)

(Double Track)

SMT Automatic Conveyor

The ZB series docking station adopts a sturdy aluminum structural design and thickened body to improve the stability of the entire machine, ensuring long-term use without deformation. The precision screw adjustment seat makes parallel width adjustment smoother. Modular design and user-friendly operation interface, easy to use and operate. SMEMA standard signal line can be directly connected to other devices for use. Suitable for connecting equipment on SMT automatic production lines, and can also increase the feasibility of special process positions.



Thickened aluminum profiles



Double Stepper Motor Drive



Ball Screw



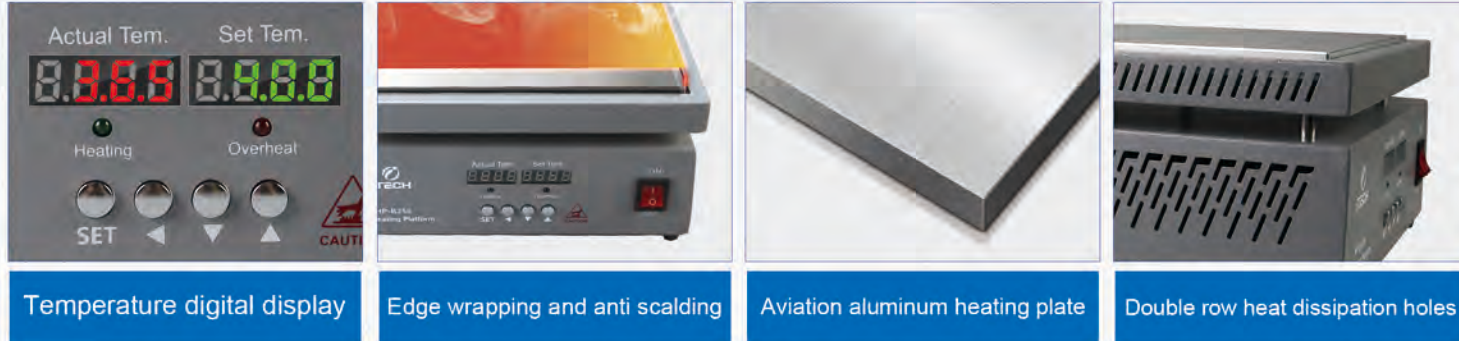
Easy to Operate

Specification

Model	PCB size	Power	Rail Way Length	Outline Size
ZBJBT350-0.5M	50~350mm (customization)	75W	500mm	L500×W670×H880mm
ZBJBT350-0.6M			600mm	L600×W670×H880mm
ZBJBT350-0.8M			800mm	L800×W670×H880mm
ZBJBT350-1.0M			1000mm	L1000×W670×H880mm
ZBJBT350-1.2M			1200mm	L1200×W670×H880mm
ZBJBT350-1.5M			1500mm	L1500×W670×H880mm
ZBJBT300GS-0.6M	Double track, 1, 2 tracks, 3, 4 tracks with adjustable widths of 50-310mm, single track 50-600mm	140W	600mm	L600×W1145×H900mm
ZBJBT300GS-1.2M			1200mm	L1200×W1145×H900mm



Constant Temperature Heating Plate



Temperature digital display Edge wrapping and anti scalding Aviation aluminum heating plate Double row heat dissipation holes

The ZBJRT series heating table is a controlled heating equipment with stable temperature, suitable for any situation that requires stable temperature control heating. It is easy to operate, fast, and efficient, making it a good helper for your production and processing.

This machine adopts efficient heating tube multi tube technology combined with high-quality aluminum plate as the heating element. The heating tube is easy to replace, the heat transfer is uniform, and the conduction efficiency is extremely high. The temperature is intelligently controlled by PID, which is accurate, intuitive, and aesthetically pleasing.

Specification					
Model	Power	Source	Temperature range	Workbench size	Overall Size
ZB1010JRT	300W	AC220V±10% 50Hz	Normal Temperature ~ 450 °C	100×100mm	L120×W120×H140mm
ZB1515JRT	400W			150×150mm	L170×W170×H140mm
ZB1810JRT	350W			180×100mm	L200×W120×H140mm
ZB2020JRT	900W			200×200mm	L230×W230×H143mm
ZB2525JRT	1200W			250×250mm	L280×W280×H143mm
ZB2820JRT	900W			280×200mm	L310×W230×H140mm
ZB3530JRT	1800W			350×300mm	L380×W330×H140mm
ZB4030JRT	2400W			400x300mm	L430×W330×H140mm
ZB5020JRT	1800W			500x200mm	L530×W230×H143mm
ZB5040JRT	3300W			500x400mm	L530×W430×H143mm



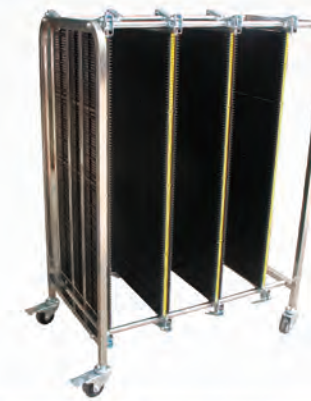
PCB Splitter

The PCB Separator can further improve the quality of PCB separate. It is suitable for cutting all kinds of PCB, SMT board, aluminum substrate board, LED board and LED light bar with V groove, Import high speed steel blade, long life span, It mainly applies to LED industry, SMT industry, mobile phone /MP3 industry, electric toy sweat, various electronic industry, and other industries using circuit boards.

Specification		
Model	ZB906L	ZB908L
Product Specification	6 PCB Blade	8 PCB Blade
Working Temperature	10~35°C	
Thickness	0.5~3mm	
Speed	0~300mm/S	
Blade Material	Import SKD11	
Work Power	AC220V±10% 50Hz	
Power	40W	
Storage Temperature	-20~50°C	
Aluminium Substrate Size	Unlimited	
Material of Cut PCB	Aluminum Substrate FR-4, Wave Fiber Board etc.	
Main Engine Size	L300×W280×H200mm	
Complete Machine Size	L1436×W430×H200mm	
V-CUT Peripheral Parts	Height Limit<13mm, Distance Welding Spot to V Slot>0.5mm	
Weight	60kg	



Six Blade PCB Cutting Unique Limit Device Multiplicity Cutting Specialized for Super Long PCB



Anti static turnover vehicle



Anti static loading and unloading rack

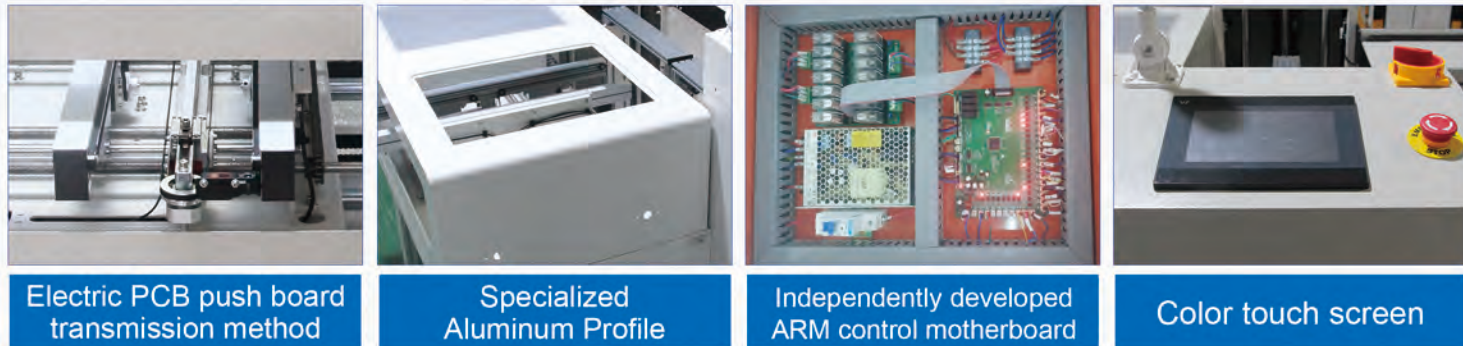
Specification			
Model	Number of installed boards	Board installation specifications	Outline Size
ZB-SMS-06D-13	300	460×170mm (Average)	L875×W505×H1310mm
ZB-SMS-06A-03G	50	350×(50~250) mm	L355×W320×H565mm

NGOK Unloading Machine



Mainly suitable for automatic frame storage behind AOI or other testing equipment in SMT production lines based on the NG/OK signal given by the testing equipment. The OK PCB board is directly pushed into the OK material rack, and the NG PCB board is pushed into the NG material rack after being translated.

This machine is widely used in various electronic manufacturing companies, especially in the fields of consumer electronics, communication equipment, automotive electronics, etc., and can significantly improve the automation level and production efficiency of the production line.



Electric PCB push board transmission method

Specialized Aluminum Profile

Independently developed ARM control motherboard

Color touch screen

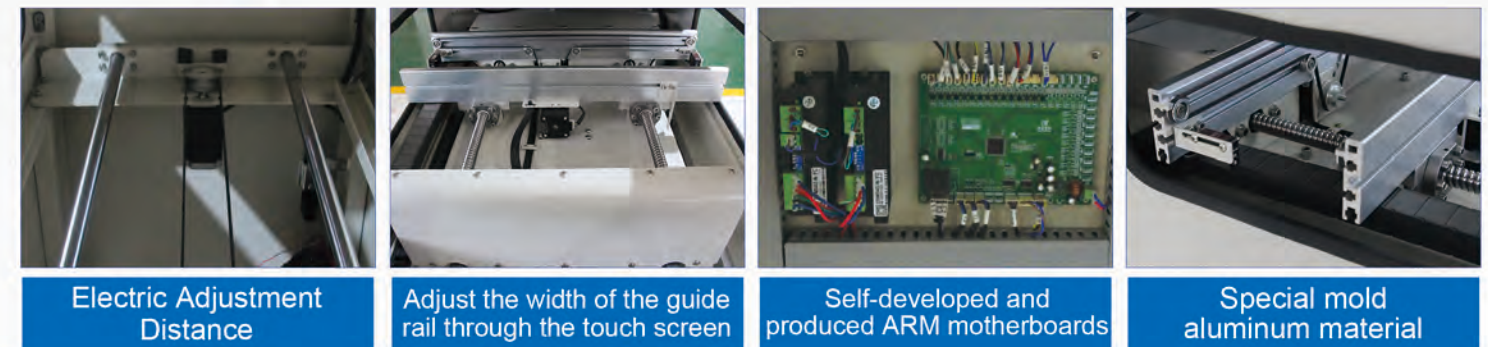
Specification

Model	ZB2535NOX	Power	500W
PCB Allowable width	50~300mm	Power Supply	AC 220V±10%
PCB Thickness	0.3~3.5mm	Dimensions	L1760×W1535×H1210mm
PCB Weight	50g~500g	Weight	320kg

PCB Transfer Machine



PCB transfer machine is an auxiliary equipment used in SMT production lines. Its main function is to realize the translation connection between single-track SMT line and double-track SMT line, as well as to complete the two-in-one and one-in-two functions, and transport the PCB circuit board to the next specific equipment.



Electric Adjustment Distance

Adjust the width of the guide rail through the touch screen

Self-developed and produced ARM motherboards

Special mold aluminum material

Specification

Model	ZB250DYZ	Power	150W
PCB Allowable width	50~300mm	Power Supply	AC:110V~220V 50Hz
Transmission method	Stepper motor transmission	Dimensions	L1350×W500×H1050mm
Running distance	500~720mm	PCB width adjustment	Electric width adjustment



PCB NG OK Buffer Conveyor

PCB NG OK Buffer Conveyor is a key machine used in the SMT production line. It is mainly used to detect qualified and unqualified PCB, and release the qualified PCB (OK) to the next process, while the unqualified PCB (NG) will flow to the designated collection area.

This machine mainly works between reflow oven and online AOI (automatic optical inspection) equipment. It can play a buffering role on the production line, especially when the production line is too fast and the back-end equipment cannot detect it.



Super Aluminum Alloy

Special mold for Aluminum guide rail

More thick metal sheet with beautiful appearance

Three modes for option

Specification

Model	ZB350DSH	Power	500W
PCB Width Range	L50~450mm	Power Supply	AC 220V±10%
PCB Thickness	0.3~3.5mm	Dimension	L800×W810×H950mm
PCB Buffer Qty	10PCS (Accept Customization For More Layers)	Weight	320kg



Vacuum PCB Loader

Vacuum PCB Loader is an automated equipment designed for the electronics manufacturing industry, mainly used for the handling and positioning of printed circuit boards (PCB). It is suitable for the front end and full section of the SMT production line, and can automatically load the stacked bare boards onto the belt and transfer them to the back-end equipment through vacuum suction, with automatic board loading function.



Ball Screw

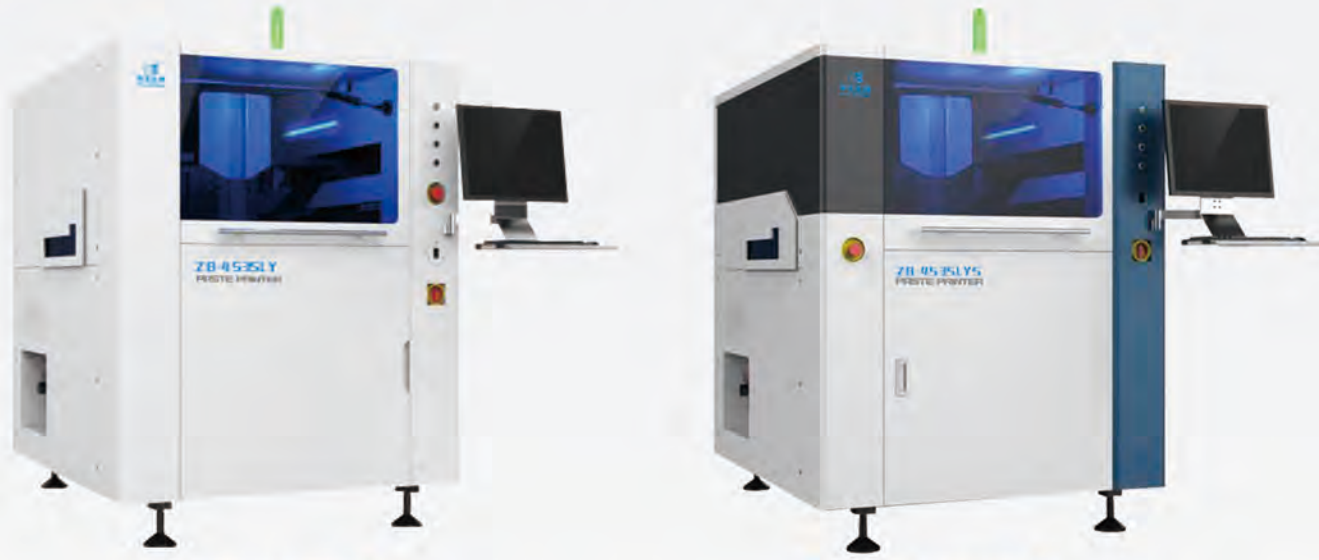
Electric PCB Transmission

Specialized Aluminum Profile

Independently Developed Mainboard

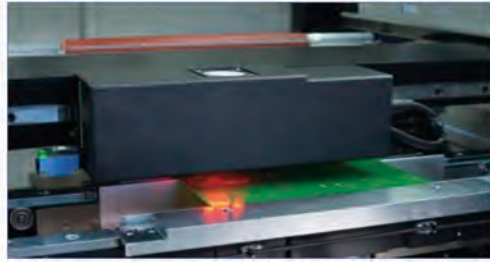
Specification

Model	ZB3035ZK	Power	300W
Maximum Board Size	W300*L350mm	Power Supply	AC 220V±10%50HZ
Air Source	0.4 ~ 0.6 MPA	Dimensions	L1150×W600×H1250mm
Maximum Board Weight	2KG	Board Placement Height of the Lifting Platform	350 mm
Maximum Conveyor Speed	15sec/pcs[W=135mm]		

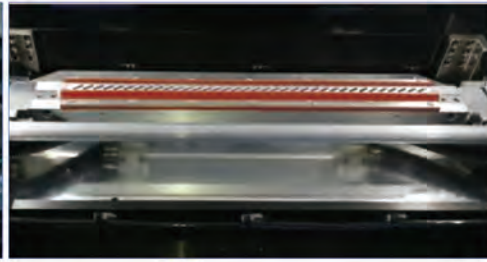

ZB-4535LY
ZB-4535LYS

Automatic Solder Paste Stencil Screen Printer

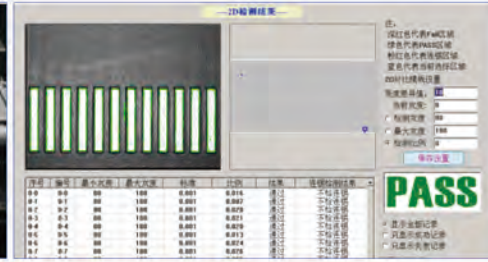
The structure is simple and reliable, with precise positioning and easy use. It has the characteristics of high precision, high stability, and high cost-effectiveness.


Accurate optical positioning system

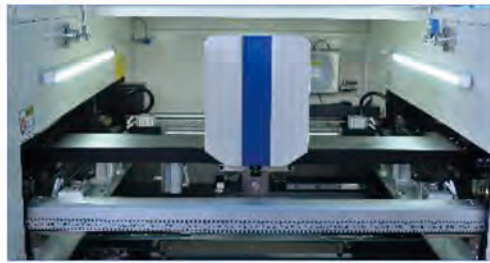
Adjustable four light sources, light intensity is adjustable, light is uniform, and image acquisition is more perfect; Good identification (including uneven mark points), apply for tinning, copper plating, Gold plating, tin spraying, FPC and other types of PCB with different colors.


High efficiency and high adaptability stencil cleaning system

The new wiping system ensures full contact with the stencil; three cleaning methods of dry, wet and vacuum, and free combination can be selected; soft wear-resistant rubber wiping plate, thorough cleaning, convenient disassembly, and universal length of wiping paper.


2D solder paste printing quality inspection and SPC analysis

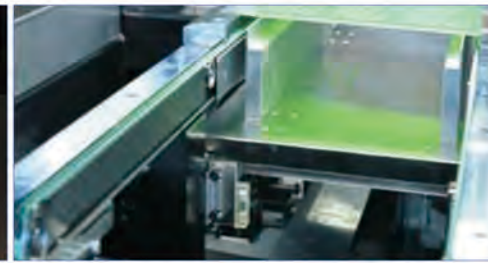
2D function for offset, less tin, leakage, tin connection and other printing problems can be quickly detected, the detection point arbitrary increase; The SPC software can analyze the samples collected by the machine CPK index ensures printing quality.


Intelligent squeegee system

Intelligent programmable setting, two independent direct motors driven squeegee, built-in precise pressure control system.


HTGD Special PCB thickness adaptive system

The platform height is automatically calibrated according to PCB thickness setting, which is intelligent, fast, simple and reliable in structure.


Simple and reliable PCB positioning system

Programmable elastic side clamp and magnetic supporting device.

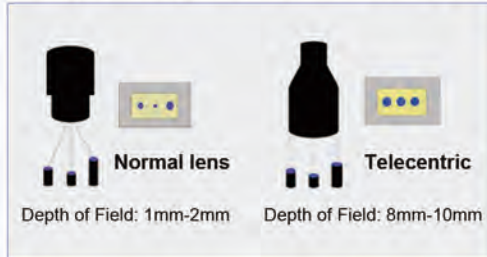
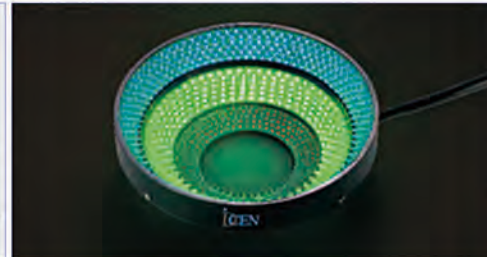
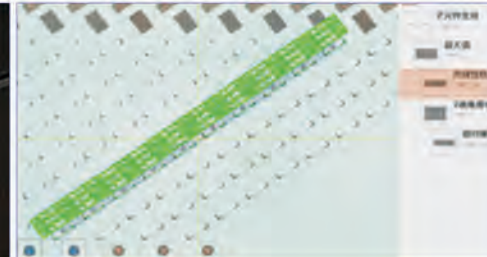
Model	ZB-4535LY	ZB-4535LYS
Max. board size (X*Y)	450mm x 350mm	
Min. board size (X*Y)	50mm x 50mm	
PCB thickness range	0.4mm~6mm	
PCB Warp	≤1%Diagonal	
Max. board weight	6Kg	3Kg
PCB edge clearance	3 mm Configuration to 3mm	
PCB bottom clearance	20mm	
Conveyor speed(Max.)	1500mm/s(Max)	
Conveyor height	900±40mm	
Conveyor direction	L→R, R→L, L→L, R→R	
PCB clamping method	Programmable elastic side clamp + Automatic adjustment plate thickness	
Support method	Magnetic thimble + Equal high block	
Print head	Linear motor closed-loop printing head	Floating intelligent printing head
Stencil frame size	370mm x 370mm~737 mm x 737 mm	470mm x 370mm~737 mm x 737 mm
Max. printing area (X*Y)	450mm x 350mm	
Squeegee Material/Angle	Steel squeegee/Rubber squeegee	
Squeegee length	220mm~500mm	300mm
Squeegee height	65±1mm	
Squeegee thickness	0.25mm Diamond-like carbon	
Print mode	Single or double squeegeeprinting	
PCB Sp	0.02 mm - 12 mm	
Print speed	0 ~ 200 mm/s	
Print pressure	0.5kg - 10Kg	
Print stroke	±200 mm (From the center)	
Cleaning system	1,Drip cleaning system;2,Dry,wet,vacuum modes	
Cleaning length	380mm	
Field of view	6.4mm x 4.8mm	8mm x 6mm
Adjustment range	X,Y:±7.0mm,θ:±2.0°	X:±5.0mm,Y:±7.0mm,θ:±2.0°
Fiducial Types	Standard Fiducial type,Solder pad/openings	
Vision methodology	Independent camera, upwards/downwards imaging vision system, geometric matching location	
Positioning accuracy	±10.0μm @6 σ,Cpk ≥ 2.0	
Full process repeatability	±20.0μm @6 σ,Cpk ≥ 2.0	
Core Cycle time	<7s	
Product changeover time	<5min	
Power supply	AC220V±10%,50/60HZ,15A	
Air supply	4~6Kg/cm ²	
Operating system (OS)	Windows XP	Win7
External dimension	1140mm(L) x 1415mm(W) x 1480mm(H)	
Machine weight	Appro 1000Kg	


Offline - ZB-500A

Online - ZB-800A

Fully Automatic AOI Detector

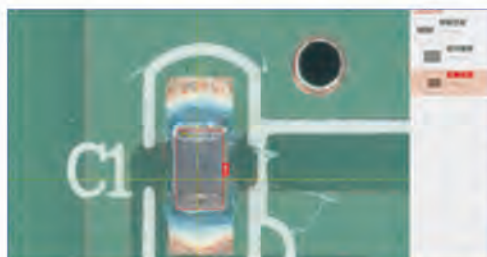
Using high-speed and high-precision visual processing technology to automatically detect various mounting errors and welding defects on PCB boards. The range of PCB boards can range from fine pitch high-density boards to low-density large-sized boards, and online inspection solutions can be provided to improve production efficiency and soldering quality.


Precise optical imaging

Tri color tower type light source

Collinearity

Far center lens: no parallax in capturing images, effectively avoiding reflection interference, minimizing high components, and solving depth of field problems

The combination design of RGB tri color LED and multi angle tower shape can accurately reflect the gradient information of the object surface

The backplane LED light strip needs to detect the relative offset between the LEDs to ensure that the entire LED light strip is collinear, perfectly solving the industry problem of testing the distribution of S-shaped non collinear LEDs and truly achieving collinearity analysis and judgment of non adjacent LEDs


Scratch Detection

Resistance Value Recognition

Intelligent Judgment

This algorithm will search for dark stripes of a specified length within the target area and calculate the average brightness value of the dark stripe area. This algorithm can be used to detect scratches, cracks, etc. on flat surfaces.

This algorithm adopts the latest machine recognition technology to recognize the characters printed on the resistor and calculate the precise resistance value and electrical characteristics of the resistor. The algorithm can be used to detect resistor errors and achieve the function of automatically matching substitute materials

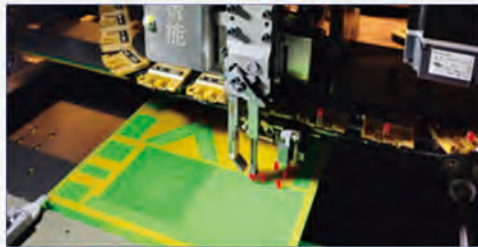
This algorithm collects various qualified and unqualified image samples separately, establishes an intelligent judgment model through training, calculates the similarity of the tested images, simulates human thinking patterns, and can easily deal with some problems that are difficult to detect by traditional algorithms. For example: peak solder joint detection, reset solder ball detection, polarity detection of circular components, etc

Model	ZB-500A	ZB-800A
Camera	5M High speed smart digital industrial camera(optional 10M, 12M)	
Image Resolution	10/15/20μm/Pixel(optional) standard 15μm/Pixel(corresponding to FOV: 38mm * 30mm)	
Optical industry lens	5M Telecentric lens at pixel level of , depth of field: 8 mm - 10 mm	
Light source system	High-brightness RGB coaxial ring multi angle LED light source	
Detection Method	Template matching, intelligent detection, circular detection, polarity detection, bridge detection, brightness average, brightness maximum, brightness minimum, brightness extraction, brightness range, relative offset, character recognition, two-end angle detection, full-page detection, intelligent judgment, Resistance value recognition, common linear testing, component generation, calculation value, scratch detection, character verification, BGA value ball detection, IPE and more than 30 algorithms	
Characteristic	IPE is an abbreviation of Image Design Express. It allows users to customize image sources using simple expressions. Different algorithms can be combined with different effects, which can greatly improve the detection rate and error rate. The image source in the system can understand the pixel. Pixel set Each pixel is represented by data from 1 to 4 channels. IPE expressions can perform independent calculations of each pixel in the image source to generate new images that can detect multiple positions on the board	
Bar code recognition	Automatic camera recognition(one-dimensional or two-dimensional)	
Mark Calibration Images	Using more than 2 Mark, support the use of different types of Mark simultaneously calibrating the image to restore the image to an ideal state, solve the image deformation problem from the root, improve the stability of detection	
Operation	CAD import, graphical programming, built-in component library, automatic generation of detection boxes based on component shape selection standards, accurate automatic positioning, Micron bit fine-tuning, fast process, support for unlimited "undo" / "redo" operations, Effective prevention of engineer programming due to accidental operations caused by errors, to facilitate engineers to do simulation tests	
Image Processing Speed	FOV processing time <170ms, 0201 chip <10ms	
Detect coverage type	1. Tin paste printing: there is no, tilt, less tin, more tin, broken road, pollution, even tin, etc 2. Parts defects: missing parts, offset, askew, monument, side stand, reverse parts, polarity, wrong parts, damage, multiple pieces, etc 3. Welding spot defects: tin more, tin less, even tin, virtual welding, multiple pieces, etc 4. Red rubber plate: missing parts, offset, askew, monument, side stand, flip pieces, polarity reverse, wrong pieces, damage, spillage, multiple pieces, etc 5. Wave peak welding: insert needles, Wuxi, Shaoxi, multi tin, virtual welding, tin beads, tin holes, broken roads, multiple pieces, etc	
PCB Size	30 x 30 mm ~ 450 x 330 mm	50 x 50mm ~ 500 x 340 mm
PCB Thickness	0.3 mm ~ 6mm	
PCB Warping Degree	≤6mm(with fixture assisted deformation) can eliminate PCB deformation	
PCB splint method	Bilateral fixture automatically opened or closed	
PCB Part height	Top Side ≤35mm, Bottom Side ≤70mm	Top Side ≤30mm, Bottom Side ≤20mm
Minimum part	01005 Chip, 0.3 mm spacing and above IC	
PCB Weight	≤3KG	
X/Y Driver	Silk rod guide rail and AC servo motor system Y axis marble, precise positioning <10μm	Silk rod guide rail and AC servo motor system
Operating system	Windows 10	
Computer Host	I5 CPU, 8G GPU graphics card, 16G memory, 120G SSD, 1TB mechanical hard disk	
Display	21.5 inch LCD wide screen	
Dimension	110 cm x 90 cm x 135 cm(L x W x H)	900 mm x 950mm x 1600mm (L x W x H)
Weight	About 400KG	About 500KG
Humidity	5~40°C 35~80% RH (No dew)	
Power supply	AC 220 Volts ± 10 %, 50/60 Hz, Rated Power 1.2 KW	AC 220 Volts ± 10 %, 50/60 Hz, Rated Power 1.5 KW
Selection	Thimble, Offline Programming Software, External Barcode Gun	Offline Programming Software, External Barcode Gun

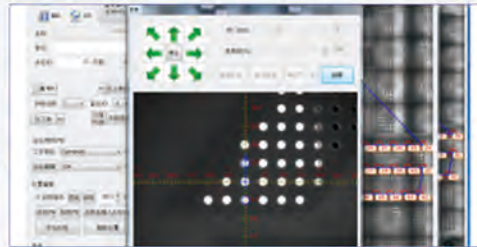


Fully Automatic Vertical Plug-in Machine

The Mini type vertical plug-in machine can achieve a substrate transfer speed of 3 seconds and a component insertion speed of 0.19 seconds per point. It adopts a fast scanning programming method, and the whole machine adopts a fully computerized control system, which can be operated with minimal manpower. It can handle substrates with a size range of 50mm * 50mm~300mm * 230mm and has ultra-high PCB correspondence capability.



The Optimal Solution For Plug-in Components



CCD Image Recognition System



Automatic Replacement Function

Specification

Substrate transfer height	900±20mm
Insertion direction	Standard: -90°~+90°, 360° optional, increment of 1°
Equipment size	(7Stations) L1560mm*W1530mm*H1620mm
Component specifications	The maximum height is 23mm and the maximum diameter is 13mm (customizable)
Circuit board input method	Fully automatic: left to right (standard) or right to left (optional)
Theoretical speed	0.19 seconds per point
Substrate transfer speed	3Sec
Substrate size	Minimum 50mm * 50mm, maximum 280mm * 260mm
Substrate thickness	0.79~2.36mm(standard :1.6mm)
PCB can be adjusted by height	Up 23mm/ Down 8mm
Lead span	Double spacing of 2.5/3.5/5.0/7.5/10.0mm (optional)
Weight	900kg



TPJFD-8*2



TPJFD-8*4



TPJFD-12



TPJFD-16



TPJFD-24

Pneumatic Feeder Specification

Model	TPJFD-8*2	TPJFD-8*4	TPJFD-12	TPJFD-16	TPJFD-24
Standard	8×2mm	8×4mm	12×4/8/12mm	16×4/8/12/16mm	24×4~36mm
SMD Type	8mm Belt Package		12mm Belt Package	16mm Belt Package	24mm Belt Package
Material	Aluminium Alloy				
Outline Size	L500×W230mm	L570×W240mm	L560×W250mm	L580×W300mm	
Weight	0.9kg	1.45kg	1.55kg	2.2kg	



Y8DF-Q/D



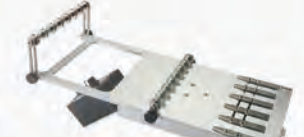
Y12/16DF-Q/D



Y24DF-Q/D



TPJFD-ZD-3G



Y12/16DF-Q/D

Electric Feeder Specification

Model	Y8DF-Q/D	Y12/16DF-Q/D	Y24DF-Q/D
Voltage	24V		
Motor speed	80ms/pcs		
Material	Aluminium Alloy		
Outline Size	L586×W237mm	L585×W245mm	L622×W252mm
Weight	1kg	1.7kg	2kg

Vibration Feeder Specification

Model	TPJFD-ZD-3G	TPJFD-ZD-5G
Standard	3 Tube	5 Tube
Voltage	24V/220V	
SMD Type	Tube Pacakage IC	
Outline Size	L365×W100mm	L365×W150mm
Weight	3.02kg	3.32kg



Feeder Trolley

Model	ZB-T80
Feeder Location	80
Outline Size	L80×W60×H108cm

THT COMBINATION ASSEMBLY LINE

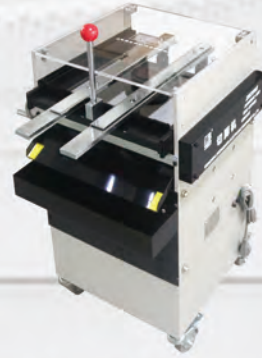
THT WELDING SMALL PRODUCTION COMBINATION KIT 1



Manual Plug-in Line



Semi-Automatic Dip Soldering Machine



Circuit Board Trimming Machine



Grinding Machine

THT WELDING AUTOMATIC PRODUCTION COMBINATION SET 1



Automatic insertion line



Input machine



Fully automatic dip soldering machine



Fully automatic trimming machine



Grinding machine

THT WELDING AUTOMATIC PRODUCTION COMBINATION SET 2



Automatic insertion line



Input machine



Fully automatic wave soldering

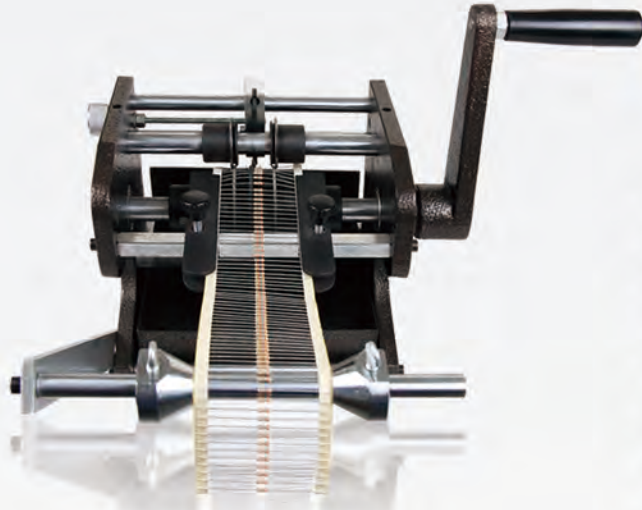


Output machine

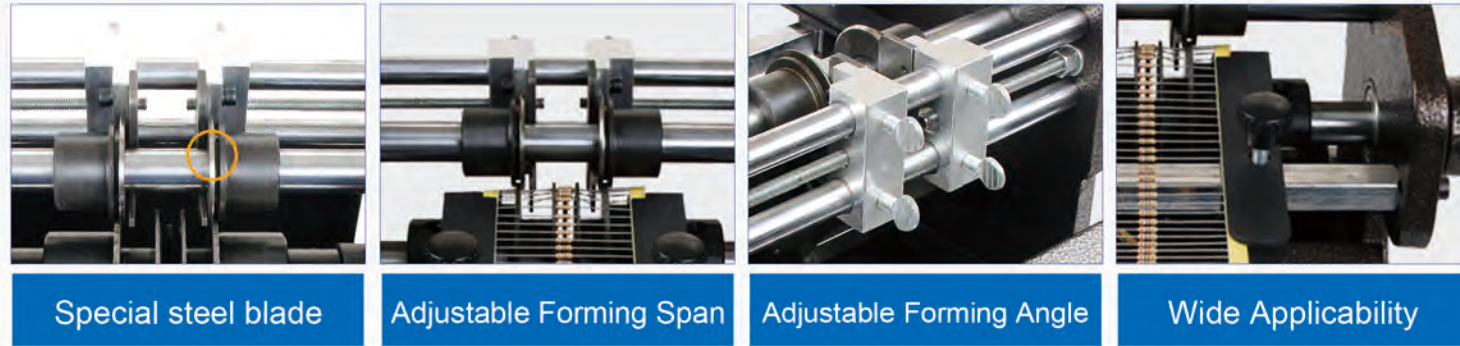


Fully automatic trimming machine

Resistance Forming Machine



The ZB101U/ZB101F hand cranked resistance forming machine is mainly used as a specialized equipment for cutting and bending the pins of electronic components such as axial braided resistors, capacitors, inductors, diodes, etc. into horizontal (U-shaped)/vertical (F-shaped) assemblies. This machine is made of high-precision parts and high-quality materials. Its action principle is that a pair of cutting gears and cutting cutters act together to cut the component feet, and then a pair of forming gears and forming cutters complete the forming process.



Special steel blade

Adjustable Forming Span

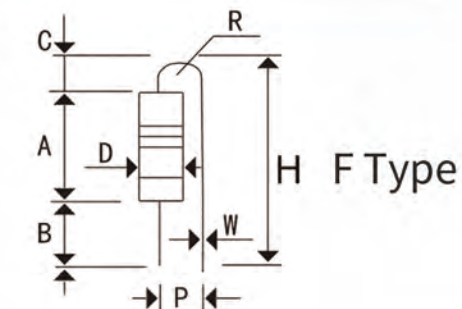
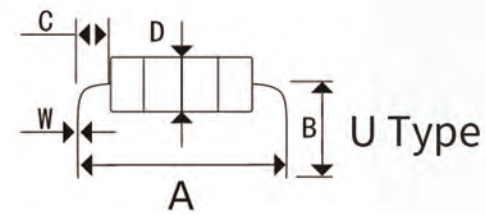
Adjustable Forming Angle

Wide Applicability

Specification

Model	ZB-101U	ZB-101F
A	6~40mm	4~18mm
B	3.6~15mm	2.5~20mm
C	1.2mm	3.5mm
D	1.5~8mm	1.5~8mm
W	0.35~1mm	
H	Not	25mm
P	Not	2.5~13.5mm

Notes:U type and F type is not the same one machine.


ZB3022P

ZB3025P

Spray Furnace

ZB Series flux spraying machine is the ideal machine that before PCB soldering ,operate simply and efficiently.

- Soldering flux is finer grains, atomization effect is more ideal.
- It's help to improve the flux activity.
- Soldering flux spray uniform, reduce spatter the tin effectively
- 304 stainless steel spray tank with anti-corrosion and not easy oxidation.

Specification

Name	Low pressure spray furnace	High pressure spray furnace
Model	ZB3022P	ZB3025P
Specification	300×220mm	300×250mm
Air Supply	Built-in	Need extra
Power	35W	70W
Power Supply	AC220V±10% 50Hz	
Weight	15kg	20kg
Outline Size	L380×W300×H710mm	L375×W325×H700mm



Soldering Pot

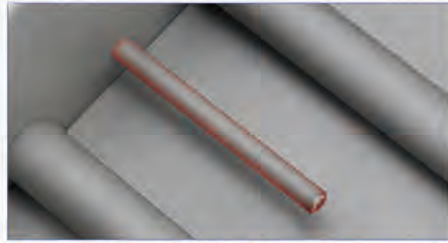


Lead-Free Soldering Pot

Tin Melting Furnace

What's the difference between B and D type?

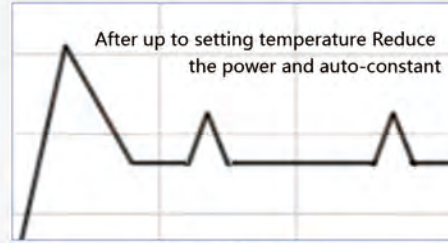
B type is using 304 stainless steel material for tin tank, D's tin tank is using the military-grade titanium, D type is more anti-corrosion, high temperature resistant, longer life, B type is just for ordinary tin bar, but D type is apply to any types of tin bar, even for the lead, so the D type is more cost-effective.



Built-in High Precision Temperature Probe



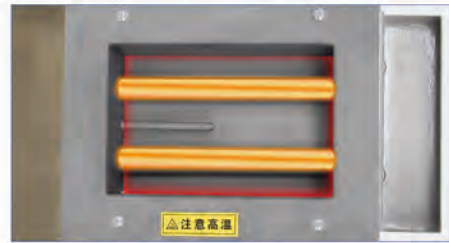
Using PID(Micro-computer) Temperature Control System



PID Automatic Temperature Constant



Independent Tin Slag Collector



With Multi-pieces Heating Tube Inside



Accessories Completely

Specification

Model	Temperature range	Tin Bath Size	Melting Capacity	Power	Power Supply	Outline Size
ZB1510B ZB1510D	Normal temperature ~400 °C	L150×W100×H70mm	7.5kg	600W	AC 220V±10% 50Hz	L370×W160×H140mm
ZB2015B ZB2015D		L200×W150×H70mm	15kg	1200W		L420×W210×H140mm
ZB2520B ZB2520D		L250×W200×H70mm	25kg	1500W		L470×W260×H140mm
ZB3025B ZB3025D		L300×W250×H70mm	38kg	2000W		L520×W310×H140mm
ZB3530B ZB3530D		L350×W300×H70mm	53kg	2200W		L570×W360×H140mm



Semi-Automatic Dip Soldering Machine

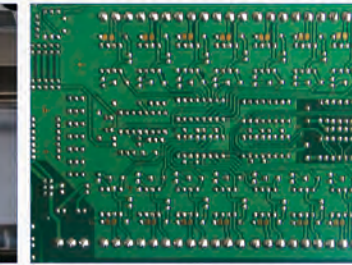
ZB series semi-automatic soldering machine use mechanical arm equipment to spray the scalding powder, PCB pre-heating, soldering, cooling, smoking and tin splash collection functions; It's apply to long and short plug-in elements and different PCB soldering requirement; soldering spot full, smooth, it's the cost-effective soldering equipment.



Automatic sensing spray



Heat-up Fast



Soldering Spot Full



PID Intelligent Temperature Control

- Newly automatic induction spray system, quicker and higher efficiency, no need manual operation.
- Using newly precision spray nozzle, spraying partical thinner and even, better atomization effect.
- High-efficiency pre-heat drying, speed up the circuit board scalling powder volatilize and activation of molecules, fully exert the scalling powder capability.
- Temperature controlled by the temperature control instrument, show the setting temperature and actual temperature at current time. Range of temperature control : Normal temperature -400°C. Main features: constant temperature ,precision and electric-saving.
- Discharging plate and cooling completed for only one time, forced cooling by super calm wind mechanism, equipped with exhaust device inside, which can delete the harmful gas produced in the process of soldering.
- Equipped with tin splash collection groove, which is convenient and save the cost through tin splash secondary reduction.
- Equipped with tin splash collection groove, which is convenient and save the cost through tin splash secondary reduction.

Specification

Model	Melting Capacity	Temperature Control Range	Temperature Control Precision	Tin Bath Size	Power	Power Supply	Outline Size	Weight
ZB3020BG-1.1 ZB3020DG-1.1	30kg	Normal temperature ~400 °C	±1%	300×200×70mm	2500W	AC220V ±10% 50Hz	1130×750×1160mm	92kg
ZB3525BG-1.1 ZB3525DG-1.1	45kg			350×250×70mm	2500W		1230×800×1160mm	101kg

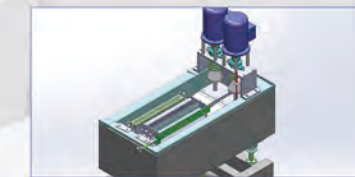


ZB200BF Fully Automatic Wave Soldering

- Zone heating
- Efficient and energy-saving
- Structure Compact
- Orbital Transmission
- Rapid Heating up
- Automatic Synchronization



Control System
Using touch screen and microcontroller operation Simple and convenient, with higher stability



Using 316L stainless steel tin bath
TA1 Industrial Pure Titanium Impeller Has strong corrosion resistance and high temperature resistance



Spraying Systems
Adopting stepper motor, linear guide rail A100 nozzle reciprocating motion



Modular preheating system
Adopting a drawer style structural design, Easy to remove for maintenance and repair



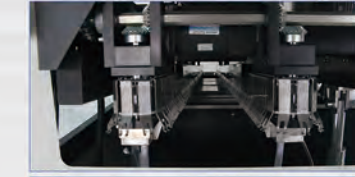
Anti oxidation cover
Can greatly reduce The oxidation amount of tin



High precision adjustment
Width adjustment through helical gears and high-precision trapezoidal gears Screw three-point synchronous width adjustment,



Using high-temperature long axis fans
New turbocharging technology, Improve the efficiency of hot air circulation



Transport board system
Balanced and uniform transportation system



Cleaning System
By using anti-corrosion brushes to wash the claws on both sides, Automatic cycle cleaning of chain claws.

COMPLETE MACHINE

Name	Fully automatic wave soldering
Model	ZB200BF
Outline Size	L2250 * W1140 * H1650mm
Weight	670kg
Power supply	AC380V/50Hz (50A)
Starting power	9KW
Operating power	About 3KW
Control system	Touch screen+microcontroller
Transport height	760 ± 20mm

PREHEATING

Preheating method	Modular full hot air heating
Temperature control	PID+SSR
Number of preheating zones	1 unit
Preheating zone length	450mm
Temperature range	Room temperature -250 °C
Preheating zone power	3KW

SPRAY

Transmission mode	Stepper motor+digital driver +linear guide rail
Spray pressure	0.25MPa-0.4MPa
Type of nozzle	A100-1.0
Flow control method	flowmeter
Flux storage tank	5.5L

TIN FURNACE

Tin furnace type	External heating tin furnace
Tin furnace material	316L stainless steel/titanium alloy δ= 4.0mm
Tin furnace power	2000W*3=6KW
Peak type	One wave disturbance wave, two wave smoothing waves
Peak height	0-12mm
Solder temperature	Room temperature -320°C
Tin furnace capacity	180KG
Tin melting time	70 minutes (set temperature of 245°C)
control mode	PID+SSR
Lifting method	Manual
Entry and exit methods	Manual (optional electric)
Timed opening	Have

TRANSPORTATION

PCB board width	50mm-200mm
PCB transfer direction	L → R
Transmission speed range	200-2200mm/min
PCB pin length	< 10mm
Speed control mode	Touch screen control
Welding angle	4-7 °
Width adjustment method	Manual width adjustment

CLEANING

Cleaning agent	Alcohol
Nozzle capacity	2.4L
Washing claws	Optional configuration

BURIAL

Cooling method	Natural wind cooling
----------------	----------------------

TECHNICAL PARAMETER



ZB300BF

Fully Automatic Wave Soldering

-  Zone heating
-  Efficient and energy-saving
-  Structure Compact
-  Orbital Transmission
-  Rapid Heating up
-  Automatic Synchronization

COMPLETE MACHINE	Name	Fully automatic wave soldering
	Model	ZB300BF
	Outline Size	L3400 * W1240 * H1650mm
	Weight	900kg
	Power supply	AC380V/50Hz (50A)
	Starting power	23KW
	Operating power	8KW
TECHNICAL PARAMETER	Control system	Touch screen
	Transport height	760 ± 20mm

PREHEATING	Preheating method	Modular full hot air heating
	Temperature control	PID+SSR
	Number of preheating zones	3 unit
	Preheating zone length	1350mm
	Temperature range	Room temperature -250 °C
SPRAY	Preheating zone power	9KW
	Transmission mode	Stepper motor+digital driver +linear guide rail
	Spray pressure	0.25MPa-0.4MPa
	Type of nozzle	A100-1.0
	Flow control method	flowmeter
	Flux storage tank	5.5L


Control System

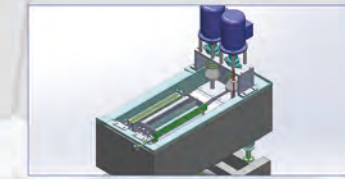
Using touch screen and microcontroller operation Simple and convenient, with higher stability


Modular preheating system

Adopting a drawer style structural design, Easy to remove for maintenance and repair


Using high-temperature long axis fans

New turbocharging technology, Improve the efficiency of hot air circulation


Using 316L stainless steel tin bath

TA1 Industrial Pure Titanium Impeller Has strong corrosion resistance and high temperature resistance


Anti oxidation cover

Can greatly reduce The oxidation amount of tin


Transport board system

Balanced and uniform transportation system


Spraying Systems

Adopting stepper motor, linear guide rail A100 nozzle reciprocating motion


High precision adjustment

Width adjustment through helical gears and high-precision trapezoidal gears Screw three-point synchronous width adjustment,


Cleaning System

By using anti-corrosion brushes to wash the claws on both sides, Automatic cycle cleaning of chain claws.

TIN FURNACE	Tin furnace type	External heating tin furnace
	Tin furnace material	316L Stainless steel δ= 4.0mm
	Tin furnace power	4500W*3=13.5KW
	Peak type	Double wave (disturbance wave+advection wave)
	Peak height	0-12mm
	Solder temperature	Room temperature -320°C
	Tin furnace capacity	280KG
	Tin melting time	70 minutes (set temperature of 245°C)
	control mode	PID+SSR
	Lifting method	Manual
CLEANING	Entry and exit methods	Manual
	Timed opening	Have

TRANSPORTATION	PCB board width	50mm-200mm
	PCB transfer direction	L → R
	Transmission speed range	200-2200mm/min
	PCB pin length	< 10mm
	Speed control mode	Touch screen control
BURIAL	Welding angle	4-7 °
	Width adjustment method	Manual width adjustment
	Cleaning agent	Alcohol
	Nozzle capacity	2.4L
BURIAL	Washing claws	2.4L
	Cooling method	Natural wind cooling



ZB350M Fully Automatic Dip Soldering Machine

- Tin saving/Power saving/Can work with long legs
- Infrared heating and preheating system
- High precision specialized nozzle

COMPLETE MACHINE	Name	Fully automatic immersion welding machine
	Model	ZB350M
	Frame size	L2600 * W1100 * H1675mm
	Outline Size	L2600 * W1050 * H1680mm
	Weight	650kg
	Power supply	AC380V/220V 50Hz
	Starting power	11KW
	Operating power	3KW
	Control system	Touch screen+PLC
	Production	MAX.2200PCS/8H
SPRAY	Start stop mode	Tracking PCB board length start stop
	Transmission mode	Mechanical rodless cylinder
	Spray pressure	0.25MPa-0.4MPa
	Spray form	Spray
	Type of nozzle	A100-1.0 (Taiwan Wina)
	Flux storage tank	5.5L

PREHEATING	Preheating method	Infrared heating	
	Temperature control method	PID+SSR	
	Number of preheating zones	1 Segment	
	Preheating zone length	600mm	
	Temperature range	Room temperature -150 °C	
	Teating time	10 minutes (temperature 150 °C)	
	Preheating zone power	6KW	
	TIN FURNACE	Tin furnace type	External heating tin furnace
		Tin furnace structure	Independent modular
		Tin furnace material	304 stainless steel/anchor alloy 6=2.0mm
Heating plate power		3000W * 2 pieces=6KW	
maximum temperature		400 °C	
Tin furnace capacity		70KG (Tin Bar 63/37)	
Heating time of tin furnace		40min (set temperature 260°C)	
Tin furnace control method		PID+SSR	
Tin furnace timed on		Have	



Control System
 PLC+touch screen intelligent control
 Powerful functions enable automated operation



Preheating System
 Ensure even and sufficient preheating of the PCB board surface The temperature control method adopts PID+SRR closed-loop control



Paw Washing System
 Automatic circulation alcohol claw washing device



Spraying Systems
 Stepper motor drive automatically adjusts with PCB width



In/out Board System
 Directly connect the plug-in assembly line and automatic foot cutting machine without the need for a connecting device



Transport Board System
 Balanced and uniform transportation system



Tin Scraping System
 User-friendly design Adjustable frequency for convenient use



Welding System
 Automatic tin surface detection, tin saving welding, adjustable tilt angle



Lead-Free Conversion
 Lead free and convenient conversion with low cost

TIN IMMERSION	Tin immersion method	Closed loop stepper motor drives up and down tin immersion
	Tin dipping tilt height	0-30mm
	Tin immersion fast speed	1-80mm/s
	Tin immersion slow speed	1-20mm/s
	Tin immersion time	1-99s
	Surface Inspection	Automatic tracking detection
	Tin addition method	Manual tin addition
	Low tin alarm method	Beep+text prompt
	Tin impregnated chain claw	Double hook claw (alloy)
	SCRAPING TIN	Tin scraping method
Tin scraping drive mode		Reduction motor
Scraping speed		160mm/s
Scraper quantity		Two sections side by side detachable
Scraping cycle		1-50 adjustable times

TRANSPORTATION	PCB board width	50mm-250mm
	PCB transfer direction	L-R
	Number of segments	3 stages (feeding conveyor+tin dipping conveyor+discharging conveyor)
	Transmission speed range	1-74mm/s
	Transport height	750+20mm
	Allow PCB component height	<60mm
	Allow PCB component pin length	<35mm
	Allow minimum PCB size	MIN.50 * 130mm
	Allow maximum PCB size	MAX250 * 350mm
	CLEANING	Speed control mode
Transportation method		Nickel plated 35B chain
Width adjustment method		Manual width adjustment
Cleaning agent		Alcohol
	Alcohol tank capacity	2.4L

TECHNICAL PARAMETER

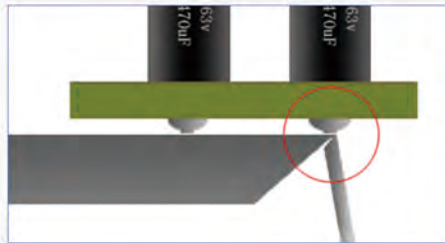


PCB Pin Cutting Machine

ZB series cutting machine are apply to cut the extra pin after components and spares soldering, it's by the high precision process components assembled, grinding process at the key part, good cutting consistency, quick blade rotate speed , stable, low noise, high efficiency and convinent to operate. Double lead rails travel adjust same time and the height of wide cutting can be adjusted casually and cost-effective.



Imported bearings, high-precision



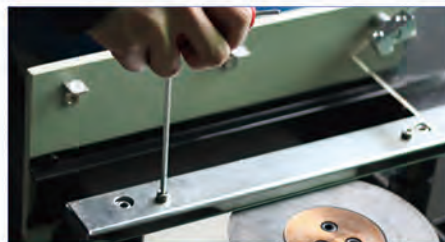
Wire cutting, blade saving



The whole machine is stable with little shaking



Exclusive technology, safer



Precision steel guide rail, more wear-resistant



Mass production, more reassuring

Specification

Model	ZB200E	ZB250E	Circuit Board Thickness	Approx 0.8~2.5mm
Lead Rail Stroke	0~220mm	0~280mm	Cut Foot Height	Approx 1.5~3mm
Blade Specification	Φ200×70×3.5mm	Φ250×70×3.5mm	Blade Speed	4500r/min
Outline Size	L615×W415×H780mm	L665×W475×H780mm	Power	550W
Weight	80kg	95kg	Power Supply	AC220V±10% 50Hz



Fully Automatic PCB Pin Cutting Machine

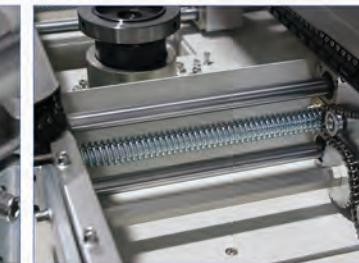
ZB250QE series fully automatic foot cutting machine. This model is currently a device developed for pin cutting in plug-in electronic products, mainly used to cut off excess pins after component welding. This machine is assembled from precision manufactured components. The key parts are ground, assembled with imported bearings, with good consistency in cutting feet, fast and stable blade speed, low noise, high efficiency, and easy operation. PCB boards are automatically transported through chains and can be connected to production lines or automatic immersion welding machines, with a high degree of automation and adjustable cutting height.



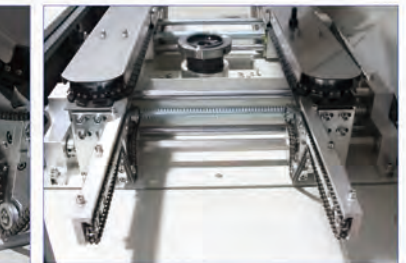
Precision craftsmanship



Pressure type claw



Linkage type width adjustment mechanism



Chain Conveyor

Specification

Model	ZB250QE	PCB conveyor height	750±20mm
Outline Size	L1000*W680*H900mm	PCB width	50-250mm
Weight	170KG	Substrate thickness	Approx 0.8mm-2.5mm
Power Supply	AC380V/50Hz	Blade Speed	4500 rpm
Power	0.7KW	Transportation speed	5-36mm/s
Control System	Touch Screen	Cutting foot height	Approx 1-3mm



ZBSRJ350

PCB Input Machine

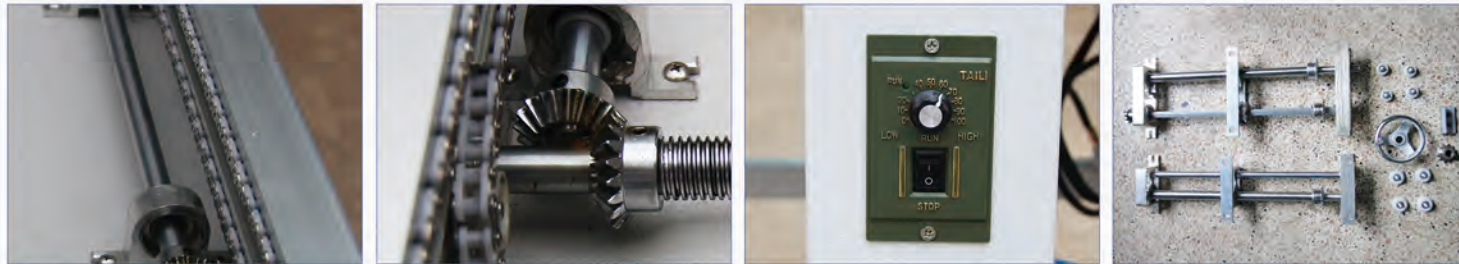
Wave soldering input connected machine apply to THT plug in line and wave soldering connected machine combine together for input, which the features including the speed can be adjustable, low noise and easy to operate. The stainless steel materials chain design make this machine wearable and beautiful appearance.



ZBSCJ400

PCB Output Machine

Wave soldering output connected machine apply to THT plug in line and wave soldering connected machine combine together for output, which the features including the speed can be adjustable, low noise and easy to operate.



The Chain Design

Synchronous Modulation

Stepless Speed Regulation

Regulation Mechanism

Specification

Model	ZBSRJ350
PCB Width	Max. 350mm
Transfer Speed	0~5000mm/min
Transport Motor	AC220V 50/60Hz 40W
Power Supply	AC220V 50/60Hz
Adjust Method	Hand Screw Adjusting
Outline Size	L1000×W655×H750~900(Adjustable)mm



Stepless Speed Regulation

Axial Flow Fan

Connector

The Conveyor Belt

Specification

Model	ZBSCJ400
Belt Width	400mm
Transfer Speed	0~5000mm/min
Transport Motor	AC220V 50/60Hz 60W
Power Supply	AC220V 50/60Hz
Track Materials	Aluminum Alloy
Outline Size	L1400×W486×H940~1300(Adjustable)mm


Vertical

Desktop

Knife Grinder

ZB series sharpen machine is mainly use the blade of PCB cutting machine to grinding, this machine assembled by high precision components, excellent motor and diamond grinding wheel, convenient, efficient, the grinding angle can adjustable; Diamond grinding wheel speeding faster, stable, low noise, cutting feeder rail stable and so on.


Enclosed Design Safety and Health

Sharpen Smoothly, Low Loss

Micro-Adjust Control, High-Precision

Multiple Protection, More Secure

Angle Adjustable, Used Widely

High Temperature and High Pressure, Multiple Protection

Specification

Model	Sharpen Angle	Blade Size	Grinding Wheel Speed	Blade Speed	Power	Power Supply	Outline Size	Weight
ZB250FL	18°~25°	MAX. Φ250	2800R.P.M	25R.P.M	750W	AC 220V ±10% 50Hz	L630×W490×H950mm	90kg
ZB250FT							L630×W490×H350mm	70kg

Cutting Machine Blade

The selected material is the national standard tungsten steel grade (YG8), which is the best choice for rough machining tools. It can bring convenience to users with high production, high safety, and its quality meets international standards. Truly made of top-grade tungsten steel material, it remains basically unchanged even at a temperature of 500 ° C, effectively improving the quality of the blade, eliminating the worry of high-temperature annealing and extending its service life. Changing the traditional blade manufacturing technology, improving hardness and reducing brittleness, 5 senior experts in blade manufacturing have studied for 4 years to create the most durable cutting machine blade!


ZB Brand Tungsten Steel Blade

Mitsubishi tungsten steel blade

Zhuzhou Diamond Tungsten Steel Blade

Specification

	200	250
Model	200	250
Material	Tungsten steel	Tungsten steel
Specifications	8 inches	10 inches
Outer diameter	Φ200mm	Φ250mm
Inner diameter	Φ70mm	Φ70mm
Thickness	3.5mm	3.5mm



Long table assembly line



Aircraft-style assembly line



Double-sided automatic insertion line



Double-sided non-powered insertion line



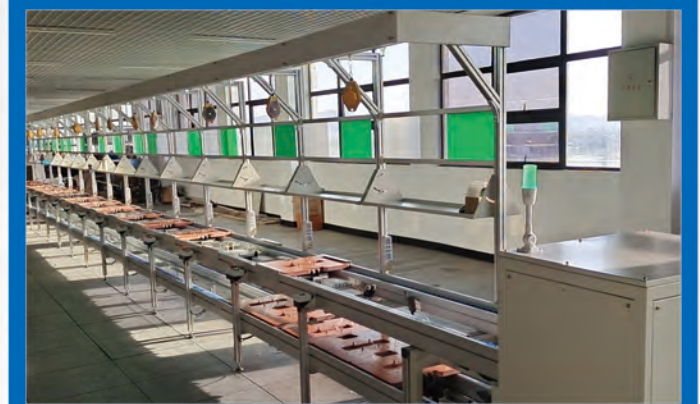
Double-sided enclosed workstation



Long table packaging line



Horizontal loop high-speed chain assembly line



Vertical loop high-speed chain assembly line



Long table assembly line



Single-sided enclosed workstation



Single-sided automatic insertion line



Belt turning machine