





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

# ENTERPRISE PRODUCT CATALOG

ZHEJIANG HUAQI ZHENGBANG AUTOMATION TECHNOLOGY CO., LTD.

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Zip code 325000



## INTELLIGENT MANUFACTURING IN CHINA



#### **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<sub>YEAR</sub>

SERVING CUSTOMERS 200,000+

> COMPANY STAFF 300+

**FACTORY** 33639<sub>m</sub>



















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### **HONORARY QUALIFICATIONS**





























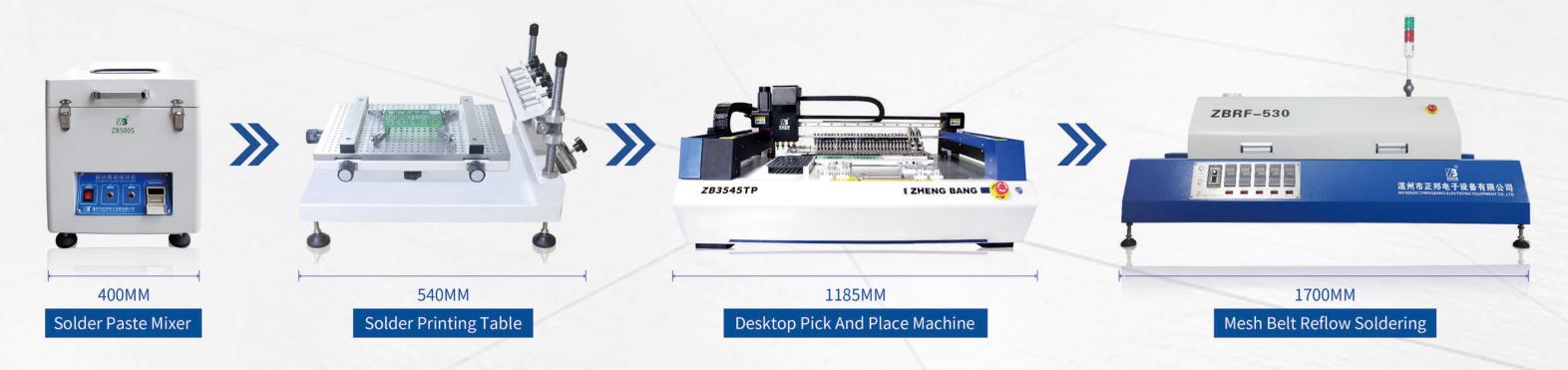


## **SMT COMBINATION ASSEMBLY LINE**





#### Research and Development Sample Combination 2



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

#### **SMT COMBINATION ASSEMBLY LINE**



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



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





# **SELECTION OF SMT MACHINE SERIES**



WS-8Y

Number of Mounting Heads: 8 Model: WS-8Y Feeder Slots: 70 Positioning Accuracy: 0.02mm PCB Size: 500×400mm Camera: Flying Camera 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

Number of Mounting Heads: 6 Model: BC-6Y 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



Model: ZB4050LS Number of Mounting Heads: 6 Positioning Accuracy: 0.02mm Feeder Slots: 64 PCB Size: 500×400mm Camera: Fixed Camera 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



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



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

Number of Mounting Heads: 2 Model: ZB3245T 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

SMT | 05



## 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
Mounting Number	s 2 PCS
Mounting Precisio	n 0.05mm
Mounding Angle	0∼360°
Theoretical Speed	4000
Normal CPH	4000
Nozzle Type	Juki Series Nozzle
SMD Height	≤5.5mm
PCB Minimal Size	10×10mm
PCB Maximum Siz	e 320×450mm
PCB Thickness	≤2mm
Туре	27 types of ribbon materials: (8mm x 20 types, 12mm x 4 types, 16mm x 2 types, 24mm x 1 type) supports customization
8 mm	20PCS
12 mm	4PCS
Applicable Element	RC (0603,0805,1206 etc) D Lamp Beads (0603,0805,3014,5050 etc Chip (SOT,SOP etc)

16 mm	2PCS
24 mm	1PCS
Preposition IC Material Level	8PCS
Tubular Materials Feeder	ZB Customized Feeder(Optional)
X/Y Axis Moving Range	410×490mm
Operational Software	Embedded HRM System
Compatible File Format	CSV、TXT.format
Program Method	Support Online and Offline Ways
Air Pressure	0.4 Mpa
Vacuity Degree	-92kpa
Storage	8G(Kingston SD Card)
Power	150W
Power Supply	AC220V±10% 50Hz
Main Engine Outline Size	L800×W780×H380mm
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

# **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	e 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
-	27 types of ribbon materials: (8mm x 20 types, 12mm x 4 types,	Vacuity Degree	-92kpa
Type	16mm x 2 types, 24mm x 1 type) supports customization	Power	150W
Front IC Location	10PCS	Power Supply	AC220V±10% 50Hz
Back IC Tray	1PCS	Main Engine Outline Size	L830×W730×H375mm
Vibration Feeder	ZB Customized Feeder(Optional)	Materials Feeder Outline	Size L235×W470×H245mm
Applicable	RC (0201,0402,0603,0805,1206 etc)  Lamp Beads (0603,0805,3014,5050 etc)  Chip (SOT.SOP.OFN.BGA etc)	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, mounting of small components and improving the reliability of mounting



**Double mounting head mounting** Double head design, achieving fast

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 Number	rs 2PCS	Z Axis Rotation Angle	0~360°
Mounting Precisio	n 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 Ty	pe 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 Siz	e 320×450mm	Program Method	Support Online and Offline Ways
PCB Thickness	≤2mm	Air Pressure	0.4 Mpa
Torre	54 types of ribbon materials: (8mm x 40 types, 12mm x 8 types,	Vacuity Degree	-92kpa
Туре	16mm x 4 types, 24mm x 2 type) supports customization	Power	230W
Front IC Location	10PCS	Power Supply	AC220V±10% 50Hz
Back IC Tray	1PCS	Main Engine Outline Size	L990×W730×H375mm
Vibration Feeder	ZB Customized Feeder(Optional)	Materials Feeder Outline	Size L235×W470×H245mm
Applicable	RC (0201,0402,0603,0805,1206 etc)	Weight	85kg
Element	D Lamp Beads (0603,0805,3014,5050 etc) Chip (SOT,SOP,QFN,BGA etc)		





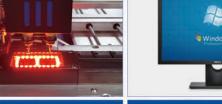
Realize closed-loop control of position, 54 bit material stack, meeting diverse speed, and torque Control and mounting requirements, overcome the problem of stepping supporting multiple feeders motor out of step



54 bit material stack



Double mounting head mounting



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



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 acheive long term high precision and stable mounting. Maximum support 38 pcs of 8mm YAMAHA CL feeder stations. Also CSV, TXT coordingate 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、
Mounding Angle	0~360°	Numbers of Visual	Precision Identification Camera×1、 High Speed Identification Camera×4
Normal CPH	5000	Recognition Capability	MAX.22×22mm
Suction Nozzle Type	Juki Series Nozzle	PC System	Microsoft WIN7
SMD Height ≤6	imm(Customize ≤11mm)	Operational Software	R&D
PCB Minimal Size	10×10mm	Compatible File Format	CSV. Format
PCB Maximum Size	350×450mm	Program Method	Support Online and Offline Ways
PCB Thickness	≤2mm	Air Pressure	0.8 Mpa
Feeder Type	YAMAHA CL Feeder	Vacuity Degree	Vacuum Generator
Feeder 8mm	n,12mm,16mm,24mm,32mm	Air Pressure	-80kpa
Feeder Locations (	38 Feida hole positions	Power	500W
Vibration Feeder	YAMAHA YV Feeder	Power Supply	AC220V±10% 50Hz
IC Tray	Front 1 Piece	Outline Size	L1185×W840×H560mm
X/Y Axis Moving Range	e 655×575mm	Weight	123kg



Stepping+servo system

improve the machine reliability and never loose step.



CCD high-definition recognition camera

Step servo system was adopted to Multi-grouped industrial CCD camera HIWIN Linear Guide generates long solutions are adoped to improve



Upper silver slide rail+imported belt



Four sets of fast recognition cameras

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 Times	Yamaha Pneumatic Cl Model,
Mounding Angle	0~360°	Supported Types	Electric YV Model, Tube Feeder, etc.
Theoretical Mounting Sp	need 15000	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm etc
Normal CPH	11000	Number of Component Posi	itions 64 Positions
Suction Nozzle Type	Juki Series Nozzle	IC Tray Positions	2 Positions
	Tray Loading/Tube Loading/	X, Y-Axis Travel Range	639mm*656mm
Component Packaging	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 Mark Camera×1、Precision Identification Cam	
Maximum Board Size (W	ithout Tray) 500×400 mm	Cameras	High Speed Identification Camera×6
Maximum Board Size (W	ith Tray) 500×250 mm	Recognition Method	High-Definition Fixed Camera
PCB Thickness	≤2mm(Customize Support)	PC System	Microsoft WIN7
Permissible Board Warp	age ≤1mm	Operating Software	Self-Developed
XY drive system	Servo Drive + Motor	Compatible File Formats	.CSV.Format
X drive Structure Single-Drive Direct-Connected Dual Linear Guide		Programming Method	Support Online and Offline Ways
R GIVE STRUCTURE	ail+ High-Strength Aerospace Aluminum	External Air Source	0.8Mpa
Singl	e-Drive Direct-Connected Dual Linear Guide	Vacuum Generation Method	Vacuum Generator
Y drive Structure	ail+ High-Strength Aerospace Aluminum	Vacuum Value	-80kpa
XY Transmission Struct	Imported Ground Ball Screw + Imported Linear Slide Rail	Safety Protection	Feeder Lift Protection,Slow Down Or Stop When Cover Is Opened
Z-Axis motion Structure	Swing arm drive	Upper and Lower	0111-015114-01
A-Axis motion Structure	Independent Direct Drive	Computer Interface	Standard SMEMA Connector
Conveying Structure	Aluminum Guide Rail	Power F	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 Structu	ire 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 Cl Model,
Mounding Angle	0~360°		Electric YV Model, Tube Feeder, etc.
Theoretical Mounting Sp	eed 21000	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm
Normal CPH	12000	Number of Component Po	ositions 66 Positions
Suction Nozzle Type	Juki Series Nozzle	IC Tray Positions	2 Positions
Component Packaging	Tray Loading/Tube Loading/	X, Y-Axis Travel Range	620mm*700mm
Component Fackaging	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	Mark Canada VI - Ebita Braha Canada V
Maximum Board Size (W	ithout Tray) 500×400 mm	Cameras	Mark Camera X1、Flying Probe Camera X1
Maximum Board Size (W	ith Tray) 500×220 mm	Recognition Method	Flying Probe + High-Definition Fixed Camer
PCB Thickness	≤2mm(Customize Support)	PC System	Microsoft WIN10
Permissible Board Warp	age ≤1mm	Operating Software	Self-Developed
XY drive system	Panasonic Servo Drive + Motor	Compatible File Formats	.CSV.Format
X drive Structure Single-Drive Direct-Connected Dual Linear Guide		Programming Method	Support Online and Offline Ways
R	ail+ High-Strength Aerospace Aluminum	External Air Source	0.8Mpa
Single	e-Drive Direct-Connected Dual Linear Guide	Vacuum Generation Meth	od Vacuum Generator
Y drive Structure R	ail+ High-Strength Aerospace Aluminum	Vacuum Value	-80kpa
XY Transmission Structu	Imported Ground Ball Screw +		Feeder Lift Protection, Slow Down Or
AT TRAISHISSION STRUCT	Imported Linear Slide Rail	Safety Protection	Stop When Cover Is Opened
Z-Axis motion Structure	Independent Direct Drive	Upper and Lower	Standard SMEMA Connector
A-Axis motion Structure	Independent Direct Drive	Computer Interface	Standard SIVICIVIA Connector
Conveying Structure	Aluminum Guide Rail	Power	Rated Power 1.5Kw, Working Power 0.35Kv
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.)

## **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 auto mated production requirements.

# VERTICAL VISION PICK AND PLACE MACHINE (8-HEAD)





#### **TECHNICAL PARAMETER**

Model	WS-8Y	Width Adjustment Structur	re Dual Ground Ball Screws + Linear Slide
Mounting Numbers	B 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		Yamaha Pneumatic Cl Model,
Mounding Angle	0~360°	Supported Types	Electric YV Model, Tube Feeder, etc.
Theoretical Mounting Sp	eed 30000	Supported Specifications	8mm,12mm,16mm,24mm,32mm,44mm
Normal CPH	16000	Number of Component Po	sitions 70 Positions
Suction Nozzle Type	Juki Series Nozzle	IC Tray Positions	1 Positions
	Tray Loading/Tube Loading/	X, Y-Axis Travel Range	630mm*700mm
Component Packaging	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	
Maximum Board Size (Wi	thout Tray) 500×400 mm	Cameras	Mark Camera X1、Flying Probe Camera X
Maximum Board Size (Wi	th Tray) 500×260 mm	Recognition Method	Flying Probe + High-Definition Fixed Came
PCB Thickness	≤3mm(Customize Support)	PC System	Microsoft WIN10
Permissible Board Warpa	ige ≤2mm	Operating Software	Self-Developed
(Y drive system	Servo drive + motor	Compatible File Formats	.CSV.Format
Single-drive direct-connected dual linear guide rail		Programming Method	Support Online and Offline Ways
( drive Structure	+ high-strength molded aluminum	External Air Source	0.8Mpa
Single	drive direct-connected triple linear guide rail	Vacuum Generation Metho	od Built-in Oil-Free Vacuum Pump
Y drive Structure	+ high-strength molded aluminum	Vacuum Value	-80kpa
XY Transmission Structu	re Imported Ground Ball Screw + Imported Linear Slide Rail	Safety Protection	Feeder Lift Protection, Slow Down Or Stop When Cover Is Opened
Z-Axis motion Structure	Ball Spline	Upper and Lower	
A-Axis motion Structure	Synchronous Spline	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 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 tornadofunnel 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.





Model



Safety Device Rse At Ease

**ZB500S** 



Time Set Optional **Balance Stir** 



Simple Panel Convenientto Operate

Constant Speed 60W

#### Specification

Rated Power

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)



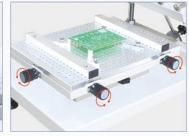
#### **Silk Screen Printing Table**

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 platfore 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

SMT | 21 22 | SMT





#### **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% 50H	
Compressed Air	8Kgf/cm <sup>2</sup>	Power 100W	
Work Altitude	130mm		



## **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.



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				

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# PCB Loader and Unloader

Automatic Unloader

**Automatic Loader** 

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	L16	50×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	

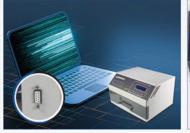


# **Precision Lead-Free Reflow Oven**

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)

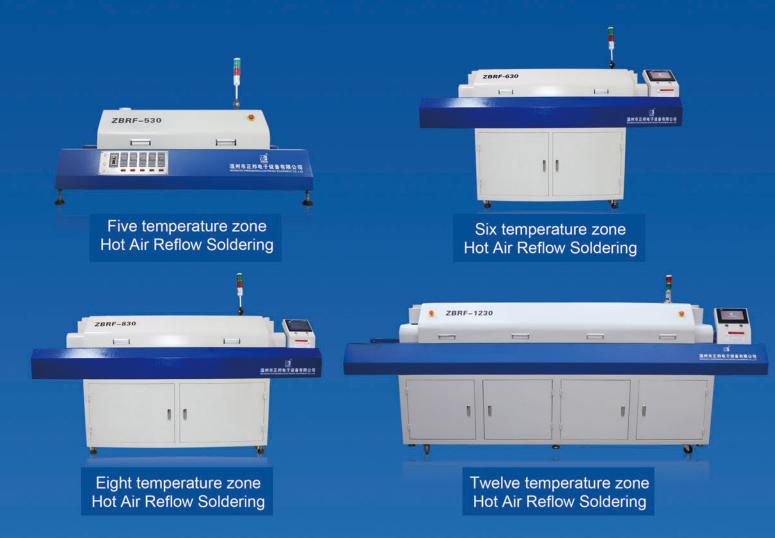
Infrared Heating Tube

PC On-line Operate

3D Hot Wind Recycle

	Specification					
Model	ZB2015HL	ZB2520HL	ZB3530HL	ZB5040HL		
Power Supply	AC22	20V ±10% 50Hz (A	AV110V Custom-M	ade)		
Max Power	700W	1600W	2400W	3600W		
Heating Method	Infrared Radiation Heating	Infrared Radiat	ion 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, He	eating Zone, Holding 2	Zone and Cooling Zon	e 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		





#### **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	ZB1230RF/ZB1230RF-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/AC380	OV ±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 Comtrol	(PID C	Touch Screen Comt Close-Cycle Calculate		
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 Directionof		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	0~1350mm/min				
Heating up Time		15~20	) mins		
Temperature Control		Indoor Temperat	cure~400 Degrees		

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## 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 unloder 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 Zo	eat Zone Numbers 8 Zones (Up 4+Down 4)		ones (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 L272	0×W820×H1360mm	L338	0×W820×H1360mm	
Weight 450kg			560kg	
Hot Wind Val	iable frequency air supply	Transportation Speed	160~1350mm/min	
Cooling Zone Numbers T	hree Natural Air Cooling	Transportation Metho	d 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 (Conveyo	or) 25mm	Temperature control range	Room temperature~350°C	
The Height of the mesh from the ground	880±20mm	Method of	PID Close-Cycle Calculate Method	
The Height of the conveyor from the ground	900±20mm	Temperature Control	The cross of the carounate method	







Touch Screen

Deliver Both By Rail Way And Chain

Available Connect To The Conveyor

Atuo-drip Oil Cup







Stainless Steel Furnace

Split Type Smoke Exhaust

High efficiency and energy saving heater

Width Manual Adjustment

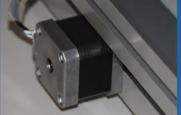




#### **SMT Automatic Conveyor**

The ZB series docking station adopts a sturdy aluminumstructural design and thickened body to improve the stability of the entire machine, ensuring long-term use withoutdeformation. The precision screw adjustment seat makesparallel width adjustment smoother. Modular design anduser-friendly operation interface, easy to use and operate.SMEMA standard signal line can be directly connected toother devices for use. Suitable for connecting equipment on SMT automatic production lines, and can also increase thefeasibility of special process positions.







**Ball Screw** 



Thickened aluminum profiles Double Stepper Motor Drive

Easy to Operate

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Model	PCB size	Power	Rail Way Lengt	Outline Size					
ZBJBT350-0.5M			500mm	L500×W670×H880mm					
ZBJBT350-0.6M	50~350mm (customization)	50~250mm		600mm	L600×W670×H880mm				
ZBJBT350-0.8M			50~350mm	75W	800mm	L800×W670×H880mm			
ZBJBT350-1.0M		1300	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	140W	600mm	L600×W1145×H900mm					
ZBJBT300GS-1.2M	adjustable widths of 50-310mm, single track 50-600mm	140W	1200mm	L1200×W1145×H900mm					







TPJFD-8\*2

TPJFD-8\*4

TPJFD-12



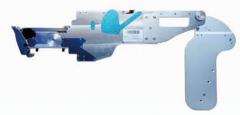


TPJFD-16

TPJFD-24

Pneumatic Feida 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	terial Aluminium Alloy					
Outline Size	L500×W	/230mm	L570×W240mm	L560×W250mm	L580×W300mm	
Weight	0.9	lkg	1.45kg	1.55kg	2.2kg	







Y8DF-Q/D

Y12/16DF-Q/D

Y24DF-Q/D

Electric Feida Specification					
Model	Y8DF-Q/D	Y12/16DF-Q/D	Y24DF-Q/D		
Material		Aluminium Alloy			
Outline Size	L586×W237mm	L670×W293mm	L670×W293mm		
Weight	1kg	1.5kg	1.8kg		

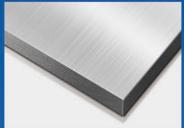
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#### **Constant Temperature Heating Plate**









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			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	AC220V±10%	Normal Temperature	250×250mm	L280×W280×H143mm	
ZB2820JRT	900W	50Hz	~ 450 °C	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**

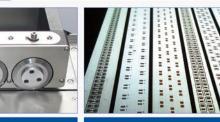
The PCB Separator can further improve the quality of PCB separate. It is suitable for cutting all kinds of PCB, SMT board, aluminum substrate board, LED board and LED light bar with V groove, Import high speed steel blade, long life span, It mainly applies to LED industry, SMT industry, mobile phone /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	0~300	mm/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	60	lkg				









Six Blade PCB Cutting

Unique Limit Device

**Multiplicity Cutting** 

Specialized for Super Long PCB







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			

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#### **THT PLUG-IN WELDING SERIES**

#### **SMT COMBINATION ASSEMBLY LINE**

### THT WELDING SMALL PRODUCTION COMBINATION KIT 1



#### THT WELDING AUTOMATIC PRODUCTION COMBINATION SET 1



#### THT WELDING AUTOMATIC PRODUCTION COMBINATION SET 2





### **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.









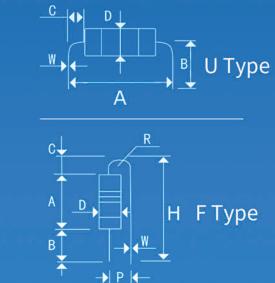
Special steel blade

Adjustable Forming Span Adjustable Forming Angle

Wide Applicability

Specification			
Model	ZB-101U	ZB-101F	
Α	6~40mm	4~18mm	
В	3.6~15mm	2.5~20mm	
С	1.2mm	3.5mm	
D	1.5~8mm	1.5~8mm	
W	0.35~1mm		
Н	Not	25mm	
Р	Not	2.5~13.5mm	

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





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		

THT | 37 38 | THT

#### THT PLUG-IN WELDING SERIES





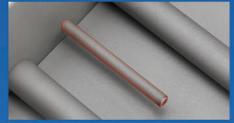
Soldering Pot

#### Lead-Free Soldering Pot

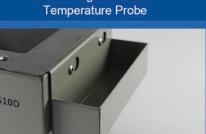
# Tin Melting Furnace

#### 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, onger 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.



Bult-in High Precision



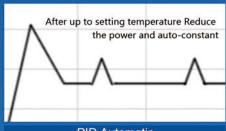
Independent Tin Slag Collector



Using PID(Micro-computer)
Temperature Control Systerm



With Multi-pieces Heating
Tube Inside



PID Automatic Temperature Constant



**Accessories Completely** 

#### Specification

Model	Temperature range	Tin Bath Size	Melting Capacity	Power	Power Supply	Outline Size
ZB1510B ZB1510D		L150×W100×H70mm	7.5kg	600W		L370×W160×H140mm
ZB2015B ZB2015D	Normal	L200×W150×H70mm	15kg	1200W		L420×W210×H140mm
ZB2520B ZB2520D	Normal temperature ~400°C	L250×W200×H70mm	25kg	1500W	AC 220V±10% 50Hz	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 scaling 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	+104	300×200×70mm	2500W	AC220V	1130×750×1160mm	92kg					
ZB3525BG-1.1 ZB3525DG-1.1	45kg	temperature ~400 °C	±1%	±1%	±1%	±1%	±1%	±1%	350×250×70mm	2500W	±10% 50Hz	1230×800×1160mm	101kg



# **ZB200BF**

## **Fully Automatic Wave Soldering**

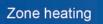
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Structure

Compact

Automatic







**Transmission** 



energy-saving

Rapid Heating up Synchronization



**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

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

#### **TECHNICAL PARAMETER**

PREHEATING	Preheating method	Modular full hot air heating
	Temperature control	PID+SSR
	Number of preheating zo	ones 1 unit
	Preheating zone length	450mm
$\exists$	Temperature range	Room temperature -250 ℃
G	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 FU	Tin furnace type	External heating tin furnace	
	Tin furnace material 316	SL stainless steel/titanium alloy δ= 4.0mm	
	Tin furnace power	2000W*3=6KW	
	Peak type One wave distur	bance wave, two wave smoothing waves	
	Peak height	0-12mm	
	Solder temperature	Room temperature -320°C	
N N	Tin furnace capacity	180KG	
FURNAC	Tin melting time 70	minutes (set temperature of 245°C)	Ī
π	control mode	PID+SSR	
	Lifting method	Manual	
	Entry and exit methods	Manual (optional electric)	
	Timed opening	Have	

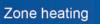
TRA	PCB board width	50mm-200mm
	PCB transfer direction	$L \rightarrow R$
S	Transmission speed range	200-2200mm/min
TRANSPORTATION	PCB pin length	< 10mm
	Speed control mode	Touch screen control
	Welding angle	4-7 °
	Width adjustment method	Manual width adjustment
ဥ	Cleaning agent	Alcohol
CLEANING	Nozzle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



# **ZB300BF**

### **Fully Automatic Wave Soldering**







**Transmission** 

Rapid

energy-saving

Heating up Synchronization

Structure

Compact

Automatic



**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





Jsing 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

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
Control system	Touch screen
Transport height	760 ± 20mm
	Model Outline Size Weight Power supply Starting power Operating power Control system

#### **TECHNICAL PARAMETER**

PREHEATING	Preheating method	Modular full hot air heating
	Temperature control	PID+SSR
	Number of preheating zo	nes 3 unit
	Preheating zone length	1350mm
呈	Temperature range	Room temperature -250 ℃
G	Preheating zone power	9KW
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 type	External heating tin furnace	E
	Tin furnace material	316L Stainless steel δ= 4.0mm	R A
	Tin furnace power	4500W*3=13.5KW	S
TIN FURNAC	Peak type Double	wave (disturbance wave+advection wave)	0
	Peak height	0-12mm	RANSPORTATION
	Solder temperature	Room temperature -320°C	É
RN	Tin furnace capacity	280KG	울
A	Tin melting time	70 minutes (set temperature of 245°C)	ဥ
Ж	control mode	PID+SSR	CLEANING
	Lifting method	Manual	ING
	Entry and exit metho	ods Manual	В
	Timed opening	Have	BURIAL

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

#### **THT PLUG-IN WELDING SERIES**

# **ZB350M**

### Fully Automatic Dip Soldering Machine

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



#### 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

	Name Fully auto	omatic immersion welding machine
COMPLETE MACHINE	Model	ZB350M
	Frame size	 L2600 * W1100 * H1675mm
	Outline Size	L2600 * W1050 * H1680mm
끸	Weight	650kg
2	Power supply	AC380V/220V 50Hz
A	Starting power	11KW
Ħ	Operating power	3KW
Z	Control system	Touch screen+PLC
	Production	MAX.2200PCS/8H
	Start stop mode T	racking PCB board length start stop
2000	Transmission mode	Mechanical rodless cylinder
SPI	Spray pressure	0.25MPa-0.4MPa
SPRAY	Spray form	Spray
~	Type of nozzle	A100-1.0 (Taiwan Wina)
	Flux storage tank	5.5L

	Preheating method	1	nfrared heating		
PREHEATING	Temperature control me	thod	PID+SSR		
	Number of preheating ze	ones	1 Segment		
Ħ	Preheating zone length		600mm		
	Temperature range	Room	m temperature -150 °C		
N G	Teating time 10	minut	es (temperature 150 °C)		
	Preheating zone power		6KW		
	Tin furnace type	Ext	ernal heating tin furnace		
	Tin furnace structure	1	ndependent modular		
=	Tin furnace material	304 staiı	nless steel/anchor alloy 6=2.0mn		
IN FURNACE	Heating plate power	3	8000W * 2 pieces=6KW		
	maximum temperature		400 ° C		
Z	Tin furnace capacity		70KG (Tin Bar 63/37)		
S S	Heating time of tin furna	ice 401	min (set temperature 260°C)		
B-A-B	Tin furnace control meth	hod	PID+SSR		
	Tin furnace timed on		Have		

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	쿤
3	Tin immersion slow speed	1-20mm/s	RANSPORTATION
Œ	Tin immersion time	1-99s	ŠPC
<b>SS</b>	Surface Inspection	Automatic tracking detection	N Z
9	Tin addition method	Manual tin addition	2
Townson or	Low tin alarm method	Beep+text prompt	9
	Tin impregnated chain cla	w Double hook claw (alloy	
SC	Tin scraping method	automatic	
SCRAPING	Tin scraping drive mode	Reduction motor	
P	Scraping speed	160mm/s	
ดิ	Scraper quantity Two sec	tions side by side detachable	CLEANING
Ħ	Scraping cycle	1-50 adjustable times	NING
-	ECHNICA	LDADAR	M

	PCB board width	50mm-250mm
TR	PCB transfer direction	L-R
		es (feeding conveyor+tin dipping nveyor+discharging conveyor)
TRANSPORTATION	Transmission speed range	1-74mm/s
SPO	Transport height	750+20mm
$\frac{3}{2}$	Allow PCB component heigh	ght <60mm
Ă	Allow PCB component pin	length <35mm
<u></u>	Allow minimum PCB size	MIN.50 * 130mm
_	Allow maximum PCB size	MAX250 * 350mm
	Speed control mode	Touch screen control
	Transportation method	Nickel plated 35B chain
	Width adjustment method	Manual width adjustment
CLE	Cleaning agent	Alcohol
CLEANING	Alcohol tank capacity	2.4L

#### TECHNICAL PARAMETER





### **PCB Pin Cutting Machine**

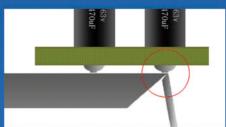
ZB series cutting machine are apply to cut the extra pin after components and spares soldering, it's by the high precision process components assembled, grinding process at the key part, good cutting consistency, quick blade rotate speed, stable,low noise, high efficiency and convinent to operate. Double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



Imported bearings, high-precision



Exclusive technology, safer



Wire cutting, blade saving



Precision steel guide rail, more wear-resistant



The whole machine is stable with little shaking



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	Ф200×70×3.5mm	Ф250×70×3.5mm	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.







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				

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## THT PLUG-IN WELDING SERIES



# 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 apperance.









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			



# 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.









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	Outline Size L1400×W486×H940~1300(Adjustable)mm				

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#### **THT PLUG-IN WELDING SERIES**



# **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.

Vertical

Desktop



Sharpen Smoothly, Low Loss



Micro-Adjust Control, High-Precision



**Enclosed Design Safety** 

and Health

Multiple Protection, More Secure



Angle Adjustable, Used Widely



High Temperation 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	L630×W490×H950mm	90kg
ZB250FT	16 ~25	MAΛ. Φ250	2000R.P.M	25K.P.M	15000	±10% 50Hz	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!







Mitsubishi tungsten steel blade



Zhuzhou Diamond Tungsten Steel Blade

Specification					
Model	200	250			
Material	Tungsten steel	Tungsten steel			
Specifications	8 inches	10 inches			
Outer diameter	Ф200mm	Ф250mm			
Inner diameter	Ф70mm	Ф70mm			
Thickness	3.5mm	3.5mm			













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