

视觉星设计印刷 13602606340

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## 深圳市矗鑫电子设备有限公司

SHENZHEN CHUXIN ELECTRONIC EQUIPMENT CO., LTD.

## 冈阳机电设备(香港)有限公司

SUNANDMOUNTAIN MECHANICAL & ELECTRICAL EQUIPMENT(HK)LIMITED

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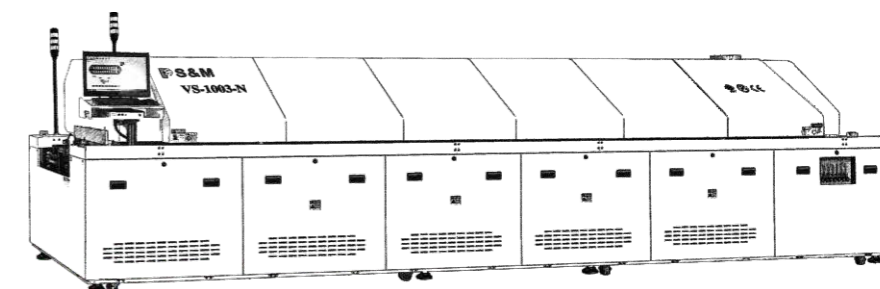
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# CHUXIN

ELECTRONIC EQUIPMENT



## 深圳市矗鑫电子设备有限公司

SHENZHEN CHUXIN ELECTRONIC EQUIPMENT CO., LTD.

## 冈阳机电设备(香港)有限公司

SUNANDMOUNTAIN MECHANICAL & ELECTRICAL EQUIPMENT(HK)LIMITED



GREEN

无铅工艺更环保，S&M更专业

Lead-free process is more environmentally friendly, chuxin Electronics is more professional

地球环境的改变，让人类开始重视环境的保护，电子产业在世界范围内开始的无铅制程已成为不可逆转的潮流。

鑫鑫从2002年开始进行无铅制程设备的探索与研究，在借鉴国外先进技术的基础上，经过多年不懈的努力，成功开发出适用于无铅制程的PCB板装联设备，鑫鑫始终关注无铅制程的发展，并随无铅制程工艺的改变持续地自我完善与提高，同时尽最大努力将客户的使用成本降至最低。

今天，技术的发展，品质的提升，尽善尽美的服务已推动鑫鑫走上了下一个新的台阶，我们将继续在先进的领域中不断挑战，用高质量的产品和服务满足客户不断增长的需求。在鑫鑫，没有妥协与止步，只有客户从鑫鑫所期望的。

As the earth's environment is changing, people are beginning to realize the importance of environmental protection. The lead-free process that the electronics industry has begun in the world has become an irreversible and always improving trend.

Chuxin began to explore and research lead-free process equipment in 2002. On the basis of drawing on advanced foreign technology, After years of unremitting efforts, we have successfully developed PCB board assembly equipment for lead-free processes. Chuxin always pays attention to the development of lead-free process, and continuously improves and improves itself with the change of lead-free process technology, and at the same time tries its best to minimize the cost of customers.

Today, the development of technology, the improvement of quality, and the reputation of excellent service have promoted Chuxin to a new level. We will continue to challenge ourselves in advanced fields and meet the increasing demands of our customers with high-quality products and services. At Chuxin there is no giving up, we do not stop until the customer is satisfied.

COMPANY PROFILE  
公司简介



深圳市鑫鑫电子设备有限公司成立于1997年，注册商标品牌：S&M，是一家拥有自主产业园区，并致力于成为电子元件表面黏着焊接设备及传输设备行业领导者的研发与制造型国家高新技术企业；产品线概括电子元件表面黏着焊接回流焊、水平式与立式固化炉、选择性波峰焊、穿孔焊接波峰焊、SMT整线传输设备以及定制自动化设备制造。

我们本着“永续经营”的经营理念与“客户至上、质量先行、诚信服务、精益求精”的服务理念不断的进步，以更优质的产品与服务回报客户。

Shenzhen Chuxin Electronic Equipment Co., Ltd. was founded in 1997, the registered trademark: S&M, is a national high-tech enterprise within dependent industrial park and is committed to becoming the leader of electronic component surface bonding welding equipment and transmission equipment industry. The product line summarizes the research and development and manufacturing of electronic components surface adhesive welding reflow welding, horizontal and vertical curing furnace, perforated welding wave soldering, selective wave soldering, SMT transmission equipment and customized automation equipment.

We are in line with the "sustainable management" business philosophy and "customer first, quality first, integrity service, refine on processing" service concept of continuous progress, with better quality products and services to repay customers. Excellent quality, first-class service and customers hand in hand, create brilliant is our assiduous goal.



# DEVELOPMENT PATH 发 / 展 / 历 / 程

1997

成立工厂，产品：回流焊、  
半自动印刷机、接驳台等

2004

成立苏州分公司推出充氮回流焊

2008

全线产品通过CE认证，  
获得部分专利证书

2012

成立西南办事处  
(重庆市璧山区)

2018

公司为了更好地规划发展  
购置50亩工业用地 建设自主工业园

2020

嘉鑫江门工业园一期  
建成并正式投产

2022

深圳总部乔迁至  
深业U中心



2002

成立深圳市嘉鑫电子设备有限公司  
推出适用于无铅制程的微循环回流焊

2005

顺利通过 ISO9001 产品质量  
体系认证将设备销往海外市场

2010

成立华北办事处  
(山东潍坊市)

2015

成为深圳市国家高新技术企业，  
获得部分实用新型专利与软件著作权证书  
产品：电子元件表面黏着焊接设备及传输设备

2019

成立越南分公司 顺利通过  
知识产权管理体系认证

2021

公司持续发展  
(回流焊产品导入  
A品牌产品线)

# CHUXIN

## ELECTRONIC EQUIPMENT

### 质量承诺 Quality Promise

严格执行 ISO9001:2000 质量标准  
Strict execution ISO9001:2000 Quality Standard

### 管理目标 Management goal

卓越的品质，一流的服务  
Excellent quality, first class service

### 质量管理 Quality Control

2005年7月公司质量管理体系通过了德国TüV ISO9001: 2000认证，  
In July 2005, the company's quality management system passed Germany TüV ISO9001: 2000 certification,  
标志了产品的质量管理完全纳入了国际化标准规范的轨道。  
Marking the quality management of products fully integrated into the track of international standards.



回流焊装配车间 Reflow oven assembly shop



波峰焊装配车间 Wave soldering assembly shop



周边设备装配车间 Peripheral equipment assembly workshop



先进的加工设备 (CNC全自动冲床)  
Advanced processing equipment (CNC automatic punching machine)



机加工车间 Machine shop



先进的加工设备 (激光切割机)  
Advanced processing equipment (laser cutting machine)

## N<sub>2</sub>/AIR REFLOW OVEN

VS 系列 无铅氮气型热风回流焊

VS Series Lead-free nitrogen type hot air reflow oven

VS 系列 无铅双轨氮气型热风回流焊

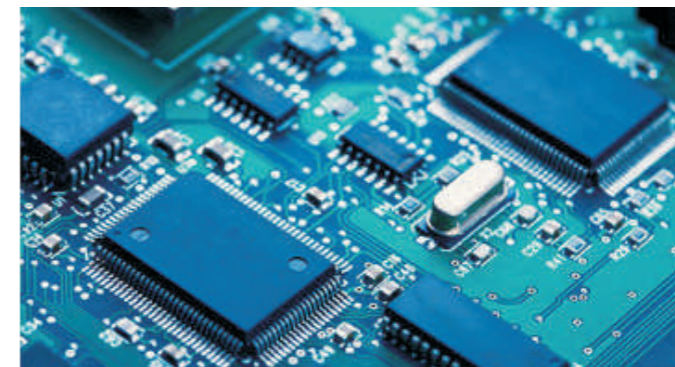
VS Series Lead-free dual-track nitrogen type hot air reflow oven

VS/DS 系列 无铅热风回流焊

VS/DS Series Lead-free hot air reflow oven

VS/DS 系列 无铅双轨热风回流焊

VS/DS Series Lead-free dual-track hot air reflow oven



表面贴装工艺设备 / SMT process equipment



# Air Reflow Oven

## VS/DS 系列 无铅热风回流焊

### VS/DS Series Lead-free hot air reflow oven

**特点：**

- ◆ Windows10 操作系统，可实现操作界面中英文自由切换
- ◆ 西门子PLC+PID闭环控制，性能稳定可靠，温度控制及炉温曲线重复精度高
- ◆ 采用模块化设计，维护保养方便快捷，可减少维护时间与成本
- ◆ 导轨采用特殊硬化处理，坚固耐用
- ◆ 具有各种故障的声光报警与信息提示功能，包含温度偏差、速度偏差、卡板、掉板、运风故障与错误操作等
- ◆ 采用新的气体管理系统，可使炉内热气体交换效率更高，以获得更好的热补偿与热效率，完全满足各种无铅焊接工艺要求

**Features :**

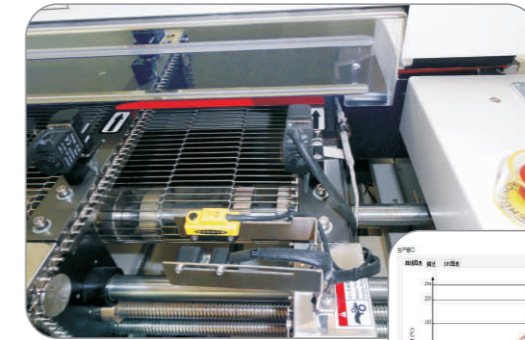
- ◆ Windows10 operating system, can realize the free switching of the operation interface in Chinese and English.
- ◆ Siemens PLC + PID closed-loop control to achieve high precise temperature control and repeatable profiles.
- ◆ Modular design, convenient and fast maintenance, reducing maintenance time and cost
- ◆ The rail surface is treated with hardening process to make it more stable.
- ◆ Sound and light alarm and information prompt function with various faults, including temperature deviation, speed deviation, detention board and drop board, wind fault and error operation, etc.
- ◆ The new gas management system can make the hot gas exchange efficiency in the furnace higher, to obtain better thermal compensation and thermal efficiency, and fully meet the requirements of various lead-free soldering processes.



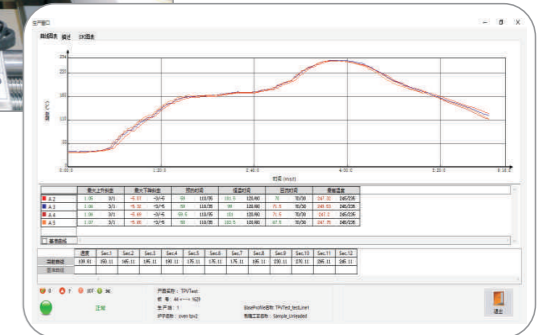
**选配 / Optional**



- ◆ 中央支撑系统（选配）
- ◆ Central support system (Optional)



- ◆ 炉温实时监测系统（选配）
- ◆ Furnace temperature real-time monitoring system (Optional)



- ◆ 简明的操控面板，集中电源开关，大盖开合，导轨调节于一处，操作简单、方便。
- ◆ 自动加油的时间和次数由电脑控制。
- ◆ As you can see the concise control panel and centralized power switch which is bigger cover for opening and closing. The rail adjustment is easy and convenient in one place as well.
- ◆ Automatic oiling time and times are controlled by computer.



- ◆ 导轨采用整体二段式多点悬挂结构，导轨调节轻便灵活。
- ◆ The guide rail adopts two-stage multi-point suspension structure, it is very light and flexible.



- ◆ 上下加热区配有独立变频器，便于客户实现不同的生产工艺
- ◆ The upper and lower heating zones are equipped with independent frequency converters to facilitate customers to achieve different production processes.
- ◆ 采用西门子PLC控制，性能稳定可靠，重复精度高，其余关键控制部件均采用进口品牌，性能稳定，经久耐用
- ◆ Adopt Siemens PLC control, stable and reliable performance, high repeatability, and other key control components are imported brands, stable performance and durable



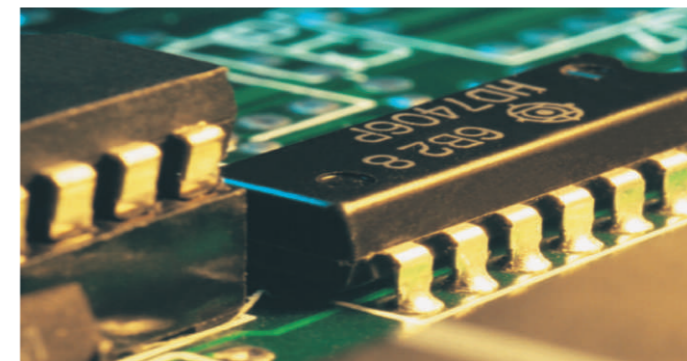
### 规格参数 Specifications & Parameters

型号 Model	VS-0802/DS-800 VS-0802-N	VS-1003/DS-1000 VS-1003-N	VS-1204/DS-1200 VS-1204-N	VS-0802D/DS-800D VS-0802D-N	VS-1003D/DS-1000D VS-1003D-N	VS-1204D/DS-1200D VS-1204D-N
	VS-0802-X VS-0802-NX	VS-1003-X VS-1003-NX	VS-1204-X VS-1204-NX	VS-0802D-X VS-0802D-NX	VS-1003D-X VS-1003D-NX	VS-1204D-X VS-1204D-NX
机器规格 Machine specification						
尺寸 Size:L*W*H(mm)	5300*1420*1520	6567*1420*1520	7733*1420*1520	5300*1640*1520	6567*1640*1520	7733*1640*1520
重量 Weight(KG)	2650/2950	2850/3150	3050/3350	2950/3250	3150 / 3450	3350 / 3650
温区构成 Temperature zone	Top 8.Bottom 8/ length 4362	Top 10.Bottom 10/ length 5463	Top 12.Bottom 12/ length 6521	Top 8.Bottom 8/ length 4362	Top 10.Bottom 10/ length 5463	Top 12.Bottom 12/ length 6521
冷区数量 Number of cold zones	Top2.Bottom0/ Top2.Bottom2	Top3.Bottom0/ Top3.Bottom3	Top4.Bottom0/ Top4.Bottom4	Top2.Bottom0/ Top2.Bottom2	Top3.Bottom0/ Top3.Bottom3	Top4.Bottom0/ Top4.Bottom4
冷区长度 Length of Cold zones	685mm	1040mm	1430mm	685mm	1040mm	1430mm
加热区整流板结构 Heating zone rectifying plate structure	加厚铝板 / Thick aluminum plate					
冷却方式 Cooling method	温室风冷 / 冷水冷却 Greenhouse air cooling / cold water cooling					
控制系统 Control system						
电源要求 Power requirement	3Φ 380V 50Hz					
启动、正常工作功率 Startup, normal operating power	30KW 9KW 32KW 10KW	36KW 10KW 38KW 11KW	40KW 11KW 42KW 12KW	30KW 11KW 32KW 12KW	36KW 12.5KW 35KW 13.5KW	40KW 14KW 42KW 15KW
升温时间 Heating time	About 25Min					
温度精度 Temperature accuracy	±1°C					
控温方式 Temperature control method	PID闭环控制 PID closed-loop control + SSR驱动 SSR drive					
PCB横向温差 Lateral temperature difference	±1.5 °C					
工艺参数存储 Process parameter storage	自动保存各项操作与报警记录+人工操作保存各种工艺参数设定 Automatically save various operations and alarm records + manual operation to save various process parameter settings					
异常报警 Abnormal alarm	标配温度偏差、速度偏差与运风故障、市电断电的声光报警 Standard temperature deviation, speed deviation and air conditioning fault, sound and light alarm of mains power failure					
掉板报警 Off board alarm	标配掉板报警功能 Standard off-board alarm function					
运输系统 Transportation system						
导轨结构 Rail structure	整体两段式 Overall two-stage					
链条结构 Chain structure	35B 单扣带挡边与销轴镀镍锰钢链条 35B single buckle with rib and pin nickel-plated manganese steel chain					
最大过板宽度 Maximum plate width	400mm (可选配 Optional 610mm)			2-280mm (可选配 Optional 2-300mm)		
导轨宽度调节范围 Rail width adjustment range	50-400mm (可选配 Optional 50-610mm)			50-280mm (可选配 Optional 50-300mm)		
运输方向 Transportation direction	L to R (可选配 Optional R to L)					
导轨固定形式 Rail fixed form	前固定, 可选配后固定 Front fixed, optional rear fixed			1号导轨和4号导轨固定, 可选配1号导轨固定, 2、3、4号导轨可调节 No. 1 rail and No. 4 rail are fixed, Optional No.1 rail is fixed, No.2、No.3 and No.4 rails are adjustable		
运输速度 Transportation speed	200 ~ 2000mm/min					
运输过板高度 Transport plate height	900±15mm					
自动润滑系统 Automatic lubrication system	标配润滑油自动加注与手动加注功能 Standard lubricant automatic filling and manual filling function					
氮气系统 Nitrogen system						
耗氮量 Nitrogen consumption	20-25m <sup>3</sup> /hr@300-1000ppm			25-30m <sup>3</sup> /hr@300-1000ppm		

选配中央支撑的回流焊无网带运输功能 Optional central support reflow oven without mesh belt transport  
 双轨机型标配为双轨同速, 可选配双轨异速 Dual-track model come standard with dual-track all-speed, optional dual-track speed

## Wave Solder

无铅波峰焊  
Lead-free wave solder



穿孔插件工艺设备 / Perforated insert process equipment

# Super Wave Solder

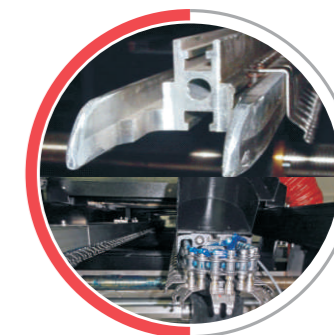
## 氮气 / 空气型波峰焊 Nitrogen/air wave solder

### 特点：

- ◆ Windows10 操作系统，可实现操作界面中英文自由切换。
- ◆ 采用模块化设计，维护保养方便快捷，可减少维护时间与成本
- ◆ 采用四段独立抽屉式超长全热风预热区，可有效减少过炉产品温差，改善产品品质
- ◆ 锡炉标配电动升降与行走机构，操作面与背面均可操作
- ◆ 锡炉标配加热二次监控防呆系统，可有效防止锡炉异常加热
- ◆ 设备标配压力罐恒压储存系统，可保证助焊剂喷涂中的压力相对稳定
- ◆ 设备标配各种故障的声光报警与信息提示功能，包含温度偏差、速度偏差、波峰与运风故障、错误操作等

### Features：

- ◆ Windows10 operating system, which can realize free switching between English and Chinese in the operation interface.
- ◆ Modular design, convenient and fast maintenance, reducing maintenance time and cost
- ◆ Four-stage independent drawer type super long hot air preheating zone can effectively reduce the temperature difference of over-furnace products and improve product quality.
- ◆ Tin furnace is equipped with electric lifting and running mechanism as standard, and both operation surface and back surface can be operated.
- ◆ Tin furnace standard with heating secondary monitoring foolproof system, can effectively prevent abnormal heating of tin furnace
- ◆ The equipment is equipped with a pressure tank constant pressure storage system to ensure that the pressure in the flux spraying is relatively stable.
- ◆ The equipment is equipped with various sound and light alarm and prompt functions, including temperature deviation, speed deviation, wave and wind fault, wrong operation, etc.



- ◆ 可选配标准导轨或加重型导轨
- ◆ Optional standard rail or heavy duty rail



- ◆ 锡炉电动升降与行走双联控制开关 (点动按钮+行车开关)
- ◆ Tin furnace electric lifting and walking double control switch (electric button + driving switch)



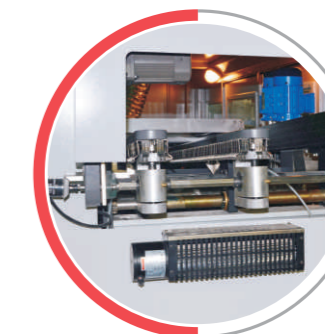
- ◆ 标配助焊剂自动添加系统
- ◆ Standard automatic flux addition system



- ◆ 采用西门子PLC控制，其余主要控制器件均采用进口品牌。
- ◆ Adopt Siemens PLC control, the other main control devices are imported brands

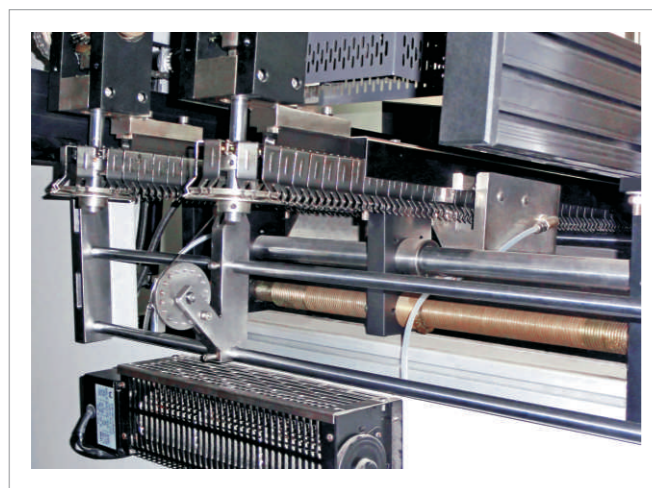


- ◆ 标配三段独立抽屉式全热风预热区
- ◆ Standard three-stage independent drawer full hot air preheating zone

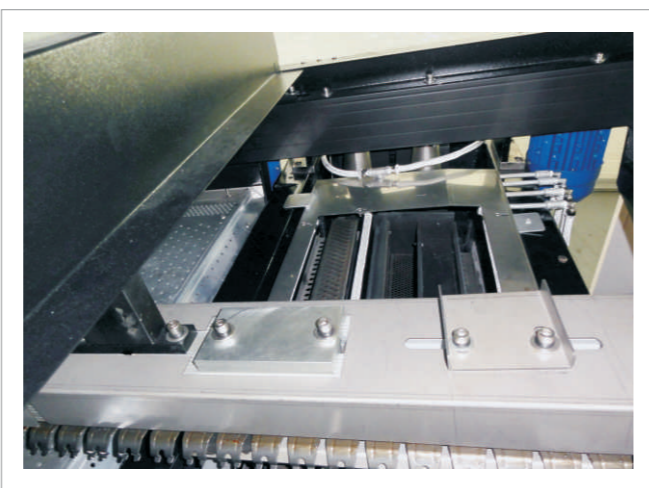


- ◆ 标配新型换向机构与编码器测速，传动平稳可靠，寿命更长。
- ◆ Standard new commutation mechanism and encoder speed detection, stable and reliable transmission, longer life





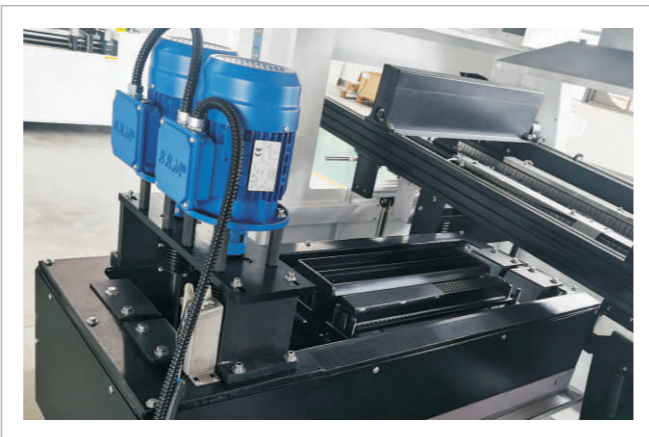
中央支撑系统 (选配)  
Central support system (Optional)



局部充氮系统:锡炉部分充氮 (选配)  
Partial nitrogen filling system:nitrogen filling in tin furnace(Optional)



热风型上部预热区 (选配)  
Hot air type upper preheating zone (Optional)



铸铁锡槽表面搪瓷处理 (标配)  
Surface enamel treatment of cast iron tin bath (Standard)

技术参数 Technical Parameters

型号 / Model	SA-350	SA-450
基板尺寸 / PCB size	Max350mm	Max450mm
传输速度 / Transfer speed	400~1800mm/min	400~1800mm/min
预热器功率 / Preheater power	21.6KW	21.6KW
锡炉功率 / Tin furnace power	18KW	18KW
传输马达 / Transmission motor	1ΦAC220V 90W	1ΦAC220V 90W
冷却风扇 / Cooling fan	1ΦAC220V 370W	1ΦAC220V 370W
锡波马达 / Tin wave motor	2-3ΦAC220V 370W	2-3ΦAC220V 370W
洗爪马达 / Cleaning motor	1ΦAC220V 30W	1ΦAC220V 30W
锡炉温度 / Tin furnace temperature	室温 / Room temperature ~300°C	室温 / Room temperature ~300°C
锡炉容量 / Tin furnace capacity	480kg	520kg
焊锡角度 / Solder angle	5.5°±1.0°可调 /Adjustable	5.5°±1.0°可调 /Adjustable
气源 / Gas source	>4kg/cm <sup>2</sup>	>4kg/cm <sup>2</sup>
助焊剂自动添加 / Automatic addition of flux	标配 / Standard configuration	标配 / Standard configuration
正常 / 起功率 / Normal / Starting power	12kw/29.5kw	13kw/36.5kw
净重 / Net weight	1650kg	1800kg
机身尺寸 / Dimensions (mm)	4250(L)×1580(W)×1650(H)	4250(L)×1580(W)×1650(H)
电源 / Power supply	3Φ380V	3Φ380V

FT-450

区域选择型喷雾机系列  
Area selective sprayer

功能与配置

- 喷涂区域可自由选择
- 开放型带防护喷雾箱
- 防滴式强力抽风罩
- 标配手摇调宽系统(可选配电动调宽)
- 工业电脑+PLC控制

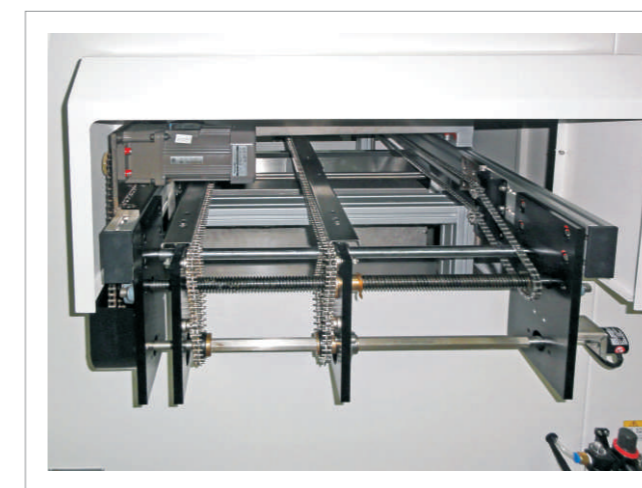
Function and configuration

- Spray area can be freely selected
- Open type with protective spray box
- Drip-proof powerful exhaust hood
- Standard hand width adjustment system (Optional electric width adjustment)
- Industrial computer + PLC control

FT-450

技术参数 Technical Parameters

型号 / Model	FT-450
基板尺寸 / PCB size	Max450mm
传输速度 / Transmission motor	0~1800mm/min
传输马达 / Conveyor motor	1ΦAC220V 90W
洗爪马达 / Cleaning motor	1Φ220V 30W
气源 / Gas source	> 4kg/cm <sup>2</sup>
助焊剂自动添加 / Automatic addition of flux	标配 / Standard configuration
总功率 / Total power	600w
净重 / Net weight	400kg
机身尺寸 / Dimensions(mm)	1500(L)×1300(W)×1600(H)
电源 / Power supply	1Φ220V



出口传动与测速系统  
Export drive and speed measurement system



入口传动与清洗系统  
Inlet drive and cleaning system



# SM-L II

## 在线双平台选择性波峰焊

### Online dual platform selective wave soldering



#### 特点：

- ◆ 采用工控机+专业多轴运动控制卡控制，可实现高精度的运动控制；
- ◆ 自主设计控制软件，可直接使用PCB图片或GERBER文档进行路径编程、路径起始点、焊接移动速度、空行程速度、Z轴高度、波峰高度等均可在电脑上设定；
- ◆ 机台可自动监测并记录包括进气气压、运输速度、预热温度、锡炉温度等在内的关键工艺参数，同时机台具有各项常见故障的自动报警与提示功能；
- ◆ 机台自带配方功能，可自动记录各工艺参数的设置，以方便产品生产文件的保存与调用；
- ◆ 助焊剂喷嘴与焊锡喷嘴的移动，均采用铝制一体式带防护精密X、Y平台，由精密滚珠丝杆+伺服马达传动，控制精准，可实现低噪音的高精度传动；
- ◆ 产品输送由各自独立的步进马达驱动，分二段实施，前段（包括助焊剂喷涂段与预热段）为铝制导轨+进口滚子链输送结构，后段（焊锡段）采用精密不锈钢滚轮式输送结构，可实现产品传输的稳定性与准确性；
- ◆ 产品焊接过程可实时显示，能通过相机输送到电脑软件中，可对焊接过程进行拍照，录制视频及保存；
- ◆ 整体机架采用钢制焊接结构，机台稳固耐用，不易变形。

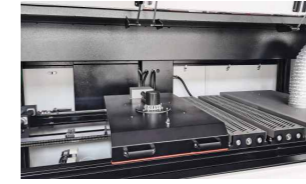
#### Features：

- ◆ Adopt industrial computer + professional multi-axis motion control card control to achieve high-precision motion control;
- ◆ Independently designed control software, which can directly use PCB pictures or GERBER documents for path editing. Course, path starting point, welding movement speed, air travel speed, Z-axis height, peak height, etc. All can be set up on the computer;
- ◆ The machine can automatically monitor and record the air intake pressure, transportation speed, preheating temperature, and tin furnace temperature. Including key process parameters, etc. At the same time, the machine has automatic alarms and tips for various common faults Function;
- ◆ The machine comes with its own formula function, which can automatically record the expensive setting of various process parameters to facilitate product production. Save and call the pieces; The movement of flux nozzles and solder nozzles is made of aluminum all-in-one with protective precision X and Y flat. The table is driven by a precision ball screw + servo motor, with accurate control, which can achieve high precision of low noise Degree transmission;
- ◆ The product delivery is driven by their own independent stepper motors, which are implemented in two stages, and the front section (including flux) The spray section and preheating section) are aluminum guide rail + imported roller chain conveyor structure, rear section (solder section) Adopts a precision stainless steel roller conveying structure, which can achieve the stability and accuracy of product transmission.
- ◆ The product welding process can be displayed in real time, can be transmitted to computer software through the camera, and can be welded. Take photos, record videos and save them;
- ◆ The overall frame adopts a steel welded structure, and the machine is stable and durable and not easy to deform.



上热风+下红外高效率预热设计，可实现产品的快速升温，以保证高品质焊接需求。

Upper hot air + lower infrared high efficiency preheating design, can achieve rapid heating of the product to ensure high quality welding needs.



双焊锡工位，采用精密机械泵起波，配备环形氮气保护系统与液位报警，可保证锡波稳定与高品质焊接。

Double solder stations, using precision mechanical pump wave, equipment ring nitrogen protection system and liquid level alarm, can ensure the stability of tin waves and high quality welding.



高精度可移动双助焊剂喷涂系统，采用进口小口径（φ0.18mm）电子精密喷射阀，移动采用铝制一体式精密X、Y平台配合伺服马达，可根据喷嘴定位，确保助焊剂精准喷涂到待焊位置。

High-precision movable double flux spraying system, using imported small diameter (φ0.18mm) electronic precision injection valve, mobile using aluminum integrated precision X, Y platform with servo motor, according to the nozzle positioning, to ensure that the flux is accurately sprayed to the position to be welded

#### 技术参数 Technical Parameters

机器总体 Machine overall	
机器尺寸 Machine size(mm)	2950(L)×1650(W)×1675(H)
机器总功率/运行功率 Total machine power/operating power	20kw/ 6-8kw
电源 Power supply	单相 380V / Single-phase 380V
净重 Net weight	1500KG
空气源要求 Air source requirements	压力0.4-0.6MPa，流量8-12L/min / Pressure 0.4-0.6MPa, flow 8-12L/min
氮气源要求 Nitrogen source requirements	压力0.3-0.5MPa，流量不小于5立方/小时，纯度不低于99.998% Pressure 0.3-0.5MPa, flow rate not less than 5 cubic meters per hour, purity not less than 99.998%
抽风量要求 Air volume requirements	喷雾上方：800-1000cbm/h；锡炉上方：600-800cbm/h Above the spray: 800-1000cbm/h; Above the tin furnace: 600-800cbm/h
载具 Pallet	
载具通过尺寸 Pallet passing size	L260 × W260-L500 × W500 mm(载具工艺边厚度：3-10mm) L260xW260-L500*W500mm (Pallet process edge thickness: 3-10mm)
双喷嘴间距 Double nozzle spacing	165~265 mm
最大焊接面积 Maximum welding area	L500 × W500 mm
控制与运输 Control and transport	
控制系统 Control system	工控机+控制器/Industrial computer + controller
运输宽度 Shipping width	50-500 mm
产品输送 Product conveying	喷雾与预热段；链条输送；焊锡段；滚轮输送/Spray and preheating section; chain conveying; solder section; roller conveying
PCB运输方向 PCB transport direction	从左到右、水平运输/Left to right, horizontal transport
元器件最大高度 Maximum component height	板上100 mm、板上30 mm /100mm on board, 30mm offboard
运输承重 Transport load-bearing	小于10kg/ Less than 10kg
运输高度 Transport height	900±20mm
喷雾运动平台 Spray motion platform	
运动轴 Motion axis	X, Y
运动控制 Motion control	闭环控制+伺服马达/Closed-loop control + servo motor
定位精度 Positioning accuracy	± 0.15 mm
松香管理 Rosin management	
助焊剂喷嘴 Flux nozzles	不锈钢电子喷射网*2 /Stainless steel electronic jet mesh*2
助焊剂容器 Flux containers	压力罐，容量1L*2 /Pressure tank, capacity 1L *2
酒精容量 Alcohol volume	压力罐，容量1L*2 /Pressure tank, capacity 1L *1
预热部分 Warm-up section	
预热方式 Warm-up mode	上热风预热，下红外预热 /Warm air warm-up, lower infrared preheating
预热功率 Warm-up power	13kw
温度范围 Temperature range	常温-240℃ /Often wet -240℃
焊锡运动平台 Solder motion platform	
运动轴 Motion axis	X, Y, Z
运动控制 Motion control	闭环控制+伺服马达 /Closed-loop control + servo motor
定位精度 Positioning accuracy	±0.15 mm
焊锡部分 Solder part	
锡槽容量 Tin tank capacity	15 kg X 2
锡料温控 Tin temperature control	PID
熔热时间 Melting time	≤40 Minutes
最高锡炉温度 Maximum tin furnace temperature	350 °C
锡槽功率 Tin bath power	1.2kw X 2
喷嘴材料 Nozzle material	低膨胀合金/Low expansion alloy
标配锡嘴 Tin nozzle comes standard	5只X 2
氮气管理 Nitrogen management	
氮气加热PID控制 Nitrogen heating PID control	0 - 350 °C
氮气消耗/锡嘴Nitrogen consumption/tin nozzle	1-2m³/小时/锡嘴 1-2/hour/tin nozzle

# Curing Oven

## 垂直热风固化炉

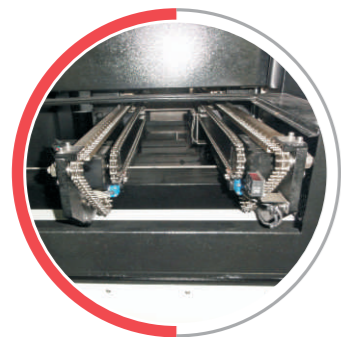
### Vertical hot air curing oven

**特点：**

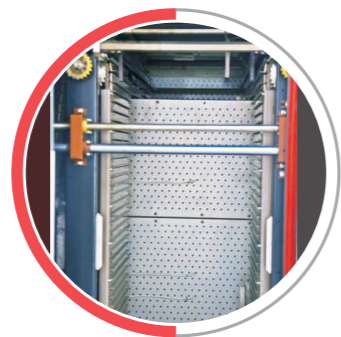
- ◆ 大幅节省人工——相比离线固化炉，本机台具备自动入板、出板，完全取消离线固化炉取放产品的人工
- ◆ 提高固化质量——相比离线固化炉，没有了人工取放产品时开合炉体动作，炉内温度更稳定，产品质量更优
- ◆ 大幅减少占地面——相比水平运输模式的隧道炉或常规SMT回流焊炉，同等产能下垂直炉的占地面积缩小数倍甚至十倍
- ◆ 提高能源利用率——相比水平运输模式的隧道炉或常规SMT回流焊炉，充分利用热空气向上运动的基本原理，热能利用更加充分

**Features：**

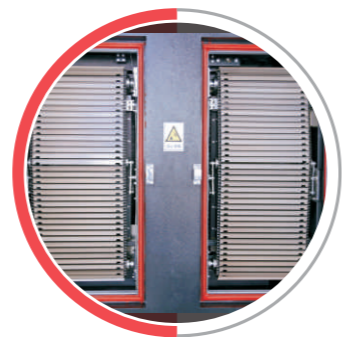
- ◆ Significantly to saving labor - compared to the offline curing oven, the machine has automatic entry and exit, completely eliminating the manual removal of the offline curing oven.
- ◆ Improve the curing quality - compared to the offline curing furnace, without the manual handling of the product when opening and closing the furnace action, the furnace temperature is more stable, the product quality is better
- ◆ Significantly reduce the occupation of the ground - compared to the horizontal transport mode of the tunnel furnace or the conventional SMT reflow oven, the vertical furnace footprint of the same capacity is reduced several times or even ten times
- ◆ Improve energy efficiency - Compared with the horizontal transport mode tunnel furnace or conventional SMT reflow oven, make full use of the basic principle of hot air upward movement, more fully utilized thermal energy



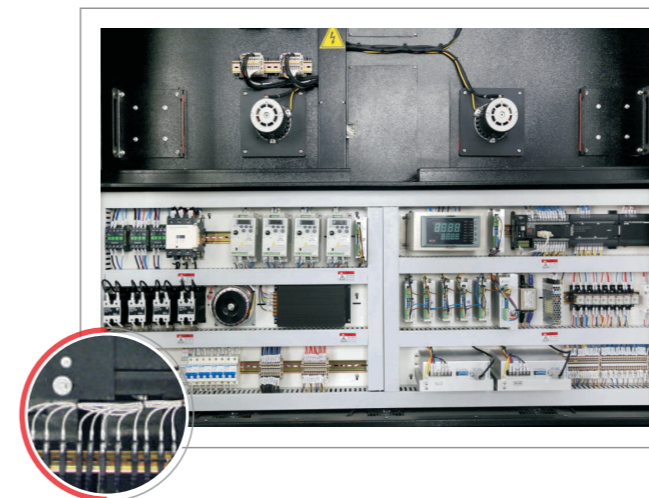
◆ 入口传动  
◆ Entrance drive



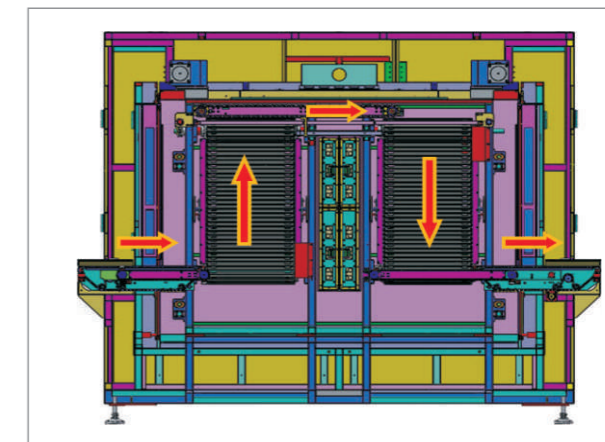
◆ 炉内加热区  
◆ Furnace heating zone



◆ 上升与下降模组  
◆ Ascending and descending modules



◆ 运风马达与部分电控  
◆ Wind motor and some electronic control



◆ 整机剖面与流向示意  
◆ The machine profile and flow direction

**技术参数 Technical Parameters**

型号 Model	KT-400 / KT-280	备注 Note
适用生产范围 Applicable production range	PCBA 产品涂覆后固化生产 PCBA Curing production after product coating	
外型尺寸 Dimensions(mm)	2500(L)×1740(W)×2240(H) 2500(L)×1580(W)×2450(H)	机台高度与重量会依客户订制层数要求增加而增加 The height and weight of the machine bed will increase according to the requirements of the custom layer
重量 Weight(kg)	Approx. 1800 / 1650	
升温时间 Heating time	Approx.30minute	
温度设定范围 Temperature setting range	室温---180°C Room Temp.180°C	
温度控制精度 Temperature control accuracy	±1°C	
控制方式 Control method	PID闭环控制+SSR驱动+触摸屏 PID closed-loop control+ SSR drive+ touch screen	
PCB板温分布偏差 PCB board temperature distribution deviation	±3°C	
过炉时间 Furnace time	依产品需求参数设定 According to product demand parameter setting	
PCB 最大尺寸 PCB maximum size(mm)	400(L)×400(W) 300(L)×280(W)	小板可采用过炉托盘，非标尺寸可定制 Small plates can be used by curing trays, non standard size can be Customized
导轨调宽范围 Rail width adjustment range	100~400mm	
过板空间 Board space	PCB上部空间=25.4mm-板厚-板下元件高度 PCB upper space = 25.4mm plate thickness - under the component height	可定制25.4的整数倍的托板间距或其它规格的链条，依链条规格的不同板上空间会有不同 Can be customized with an integral multiple of 25.4 pallet spacing or other specifications of the chain, depending on the size of the chain, the board space will be different
运输高度 Transmission height(mm)	900±20mm	参照客户点胶设备 Reference customer dispensing equipment

# Super Curing Oven

## 料框式垂直热风固化炉

### Material frame vertical hot air curing oven

#### 特点：

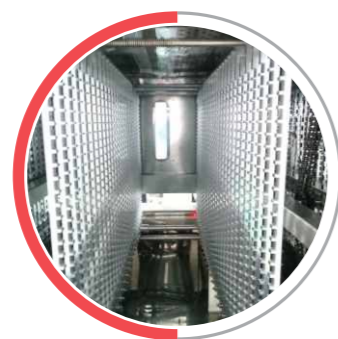
- ◆ 传动设计更科学，最大限度降低卡板风险：内部传动无对接对接点，运输顺畅
- ◆ 智能频闭故障层，提高运行效率：设备运行中，当垂直炉中的某一层或某几层的托条出现故障时，可在操作系统中选择频闭此过板层，不影响设备的使用，而市面上通用的垂直炉无此功能
- ◆ 运行范围可调节，更加节能降耗：料框式垂直炉可实现小循环动作，产品无需经过最顶层
- ◆ 创新滚针主动运输，拒绝卡板伤板：采用滚针主动运输，遇到卡滞产品（载具）会停下来，而传统链条推动产品（治具）运动的垂直炉，当遇到卡滞时链条会强行动作，导致产品（治具）卡板或报废

#### Features：

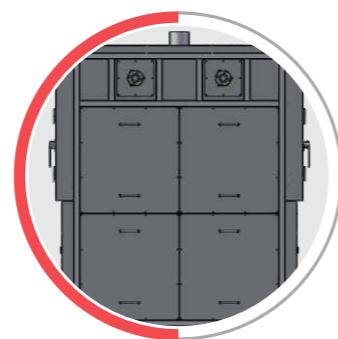
- ◆ The transmission design is more scientific, and the risk of jamming is minimized: the internal transmission has no connection point, and the transportation is smooth
- ◆ Intelligent shielding fault layer to improve operation efficiency: during equipment operation, when the support bar of a certain layer or several layers in the vertical furnace is in fault, the shielding of the plate passing layer can be selected in the operating system, which will not affect the use of the equipment. However, the general vertical furnace in the market does not have this function
- ◆ Adjustable operation range, more energy saving and consumption reduction: the vertical furnace with material frame can realize small cycle action, and the product does not need to pass through the top layer
- ◆ Innovative needle roller active transportation and rejection of jamming and plate damage: when using needle roller active transportation, the products (vehicles) will stop when they are stuck, while the vertical furnace where the traditional chain drives the products (fixtures) to move will act forcefully when they are stuck, resulting in the products (fixtures) being jammed or scrapped



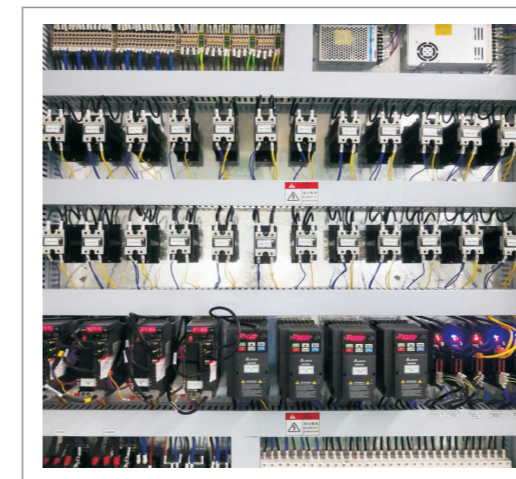
◆ 入口传动  
◆ Entrance



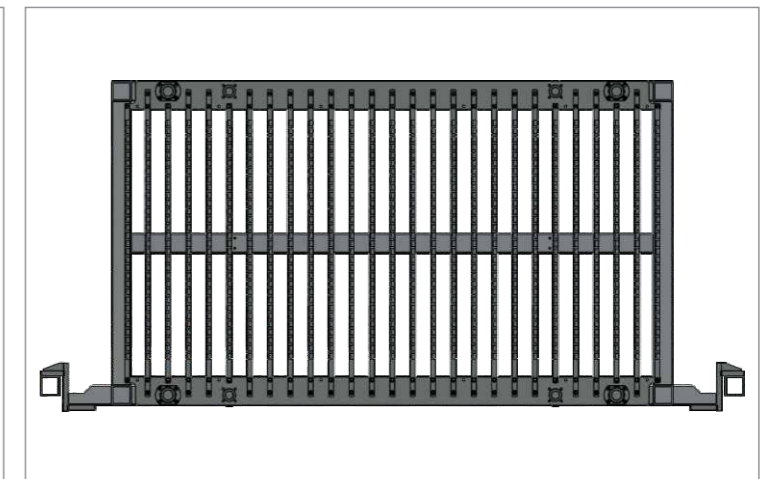
◆ 炉内加热区  
◆ Furnace heating zone



◆ 炉胆结构示意图  
◆ Schematic diagram of furnace liner structure



◆ 部分电控  
◆ Some electronic control



◆ 料框内部结构示意图  
◆ Schematic diagram of internal structure frame

#### 技术参数 Technical Parameters

型号 Model	KL-650
适用生产范围 / Applicable production range	消费电子点胶、贴片固化 Curing after dispensing or pasting of consumer electronics
外型尺寸 / Dimensions(mm)	2150(L)×2050(W)×2150(H)
重量 / Weight(kg)	<2000KG
升温时间 / Heating time	10min
温度设定范围 / Temperature setting range	常温--200℃ / Room Temp-200℃
控温精度 / Control method	±1℃
温区数量 / Number of temperature zones	4个
加热方式 / Heating mode	热风大循环，两侧对吹顶部回风 Large circulation of hot air, two sides blowing and top return air
控制方式 / Control method	PID闭环控制+SSR驱动 / PID closed-loop control + SSR drive
PCB板温偏差 / PCB board temperature distribution deviation	±3℃
最小节拍 / Min beat	15S
PCB最大尺寸 / PCB maximum size(mm)	650(L)×460(W)
导轨调宽范围 / Rail width adjustment range	80~460mm
轨道调宽窄 / Track width adjustment	自动调宽窄，靠近操作面为定轨 Automatic width adjustment, and fixed track near the operating surface
产品流向 / Product flow direction	由左至右 / From left to right
层间距 / Layer spacing	20mm
运输高度 / Transmission height(mm)	920±30mm
层数 / Number of layers	60层 / 60 layers
装机功率 / Installed power	67KW



## SMT系列 周边设备

### SMT Series PCB Conveyor Machine

## SZL-3系列 收送板机

### Buffer Loader / NG Stocker

#### 特点：

- ◆ A.I SMT 生产线专用自动NG/OK收送板设备
- ◆ 综合多种功能，可切换Buffer、Loader、Unloader、NG Stocker
- ◆ Buffer功能，可分先进先出、先进后出选择使用
- ◆ 彩色人机界面控制操作、功能切换，简便更易懂
- ◆ PLC 控制系统，多重电气回路保护设计，安全稳定
- ◆ 辅助定位刹车系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ A.I SMT production line dedicated automatic NG/OK Un-loader
- ◆ Integrated multiple functions, can be switched to Buffer, Loader, Unloader, NG Stocker
- ◆ Buffer can be divided into first-in first-out, advanced after selection using
- ◆ Color HMI operation system interface control operation, function switching which are simple and easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function

#### 技术参数 Technical Parameters

型号 / Model	SZL-3
描述 / Description	可用于自动收集AOI检测NG/OK电路板到不同的料框 / Can be used to automatically collect AOI inspection NG/OK circuit boards to different bins 可用于自动上下电路板的操作 / Can be used for automatic operation of the upper and lower circuit boards 可用于SMT机器之间起缓冲作用 / Can be used to buffer between SMT machines
料箱数量 / No. of magazine	上层轨道 1个；下层轨道 1个 / Upper conveyor: 1nos.Lower conveyor: 1 nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流，单相最大300伏安 / 220V(AC,SP) 300VA max
气压及气流量 / Air pressure and air flow	4~6bar，最多10升/分钟 / 4~6bar, Up to 10 l/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	LL	XL
型号 / Model	SZL-3BM	SZL-3BL	SZL-3BLL	SZL-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×80(W)-330(L)×250(W)	80(L)×80(W)-460(L)×330(W)	80(L)×80(W)-510(L)×390(W)	80(L)×80(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1150(L)×1250(W)×1200(H)	1260(L)×1540(W)×1200(H)	1440(L)×1620(W)×1200(H)	1440(L)×1690(W)×1200(H)
料箱尺寸 / Magazine size(mm)	355(L)×320(W)×565(H)	460(L)×400(W)×565(H)	535(L)×460(W)×570(H)	535(L)×530(W)×570(H)
料箱通俗名称 / Common name of magazine	803#	806#	808#	809#
大概重量 / Weight(kg)	220(kg)	245(kg)	250(kg)	255(kg)



## SL-3系列 侧进式送板机

### Side Entry Unloader

#### 特点：

- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制，彩色人机界面操作
- ◆ 采用步进马达推板结构，推板力度速度均可调
- ◆ 辅助定位刹车系统，定位精确，升降速度快，生产效率高
- ◆ 多重电气配电回路保护，安全可靠
- ◆ 声光提示报警系统，异常信息文字提示，操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ SMT production line circuit board upper board device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function



#### 技术参数 Technical Parameters

描述 / Description	用于自动往生产线送出电路板 Used to automatically send out circuit boards to the production line
料箱数量 / No. of magazine	上层轨道1个；下层轨道 2个 / Upper conveyor: 1nos. Lower conveyor:2nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流，单相最大300伏安 / 220V(AC,SP) 300VA max
气压及气流量 / Air pressure and air flow	4~6bar，最多0.1升/分钟 / 4~6bar, Up to 0.1
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	LL	XL
型号 / Model	SL-3BM	SL-3BL	SL-3BLL	SL-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×390(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1350(L)×720(W)×1200(H)	1770(L)×800(W)×1200(H)	1840(L)×860(W)×1200(H)	1840(L)×930(W)×1200(H)
料箱尺寸 / Magazine size(mm)	355(L)×320(W)×565(H)	460(L)×400(W)×565(H)	535(L)×460(W)×570(H)	535(L)×530(W)×570(H)
料箱通俗名称 / Common name of magazine	803#	806#	808#	809#
大概重量 / Weight(kg)	145(kg)	205(kg)	250(kg)	255(kg)

## ZL-3系列 侧进式收板机

### Side Entry Unloader

#### 特点：

- ◆ SMT 生产线电路板的收板装置
- ◆ PLC 控制，彩色人机界面操作
- ◆ 采用步进马达推板结构，推板力度速度均可调
- ◆ 辅助定位刹车系统，定位精确，升降速度快，生产效率高
- ◆ 多重电气配电回路保护，安全可靠
- ◆ 声光提示报警系统，异常信息文字提示，操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ SMT production line circuit board closing device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function



#### 技术参数 Technical Parameters

描述 / Description	用于自动从生产线收集电路板 For automatic collection of circuit boards from the production line
料箱数量 / No. of magazine	上层轨道1个；下层轨道 2个 / Upper conveyor: 1nos. Lower conveyor:2nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流，单相最大300伏安 / 220V(AC,SP) 300VA max
气压及气流量 / Air pressure and air flow	4~6bar，最多0.2升/分钟 / 4~6bar, Up to 0.2
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	LL	XL
型号 / Model	ZL-3BM	ZL-3BL	ZL-3BLL	ZL-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×390(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1980(L)×720(W)×1200(H)	2590(L)×800(W)×1200(H)	2660(L)×860(W)×1200(H)	2660(L)×930(W)×1200(H)
料箱尺寸 / Magazine size(mm)	355(L)×320(W)×565(H)	460(L)×400(W)×565(H)	535(L)×460(W)×570(H)	535(L)×530(W)×570(H)
料箱通俗名称 / Common name of magazine	803#	806#	808#	809#
大概重量 / Weight(kg)	185(kg)	235(kg)	285(kg)	300(kg)

## SL-3系列 直进式送板机

### Vertical Entry Loader



#### 特点:

- ◆ 用于垂直于线体方向上料, 有效缩短线体长度
- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ 多重电气配电路保护, 安全可靠
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ It is used for feeding in the direction perpendicular to the line body, effectively shortening the length of the line body
- ◆ SMT production line circuit board closing device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function

#### 技术参数 Technical Parameters

描述 / Description	用于自动往生产线送出电路板 Used to automatically send out circuit boards to the production line
料箱数量 / No. of magazine	上层轨道1个; 下层轨道 1个 / Upper conveyor: 1nos. Lower conveyor: 1nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大300伏安 / 220V(AC,SP) 300VA max
气压及气流量 / Air pressure and air flow	4~6bar, 最多0.1升/分钟 / 4~6bar, Up to 0.1
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	LL	XL
型号 / Model	SL-3BM	SL-3BL	SL-3BLL	SL-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×390(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	960(L)×1280(W)×1200(H)	1170(L)×1560(W)×1200(H)	1320(L)×1620(W)×1200(H)	1320(L)×1690(W)×1200(H)
料箱尺寸 / Magazine size(mm)	355(L)×320(W)×565(H)	460(L)×400(W)×565(H)	535(L)×460(W)×570(H)	535(L)×530(W)×570(H)
料箱通俗名称 / Common name of magazine	803#	806#	808#	809#
大概重量 / Weight(kg)	145(kg)	205(kg)	250(kg)	255(kg)

## ZL-3系列 直进式收板机

### Vertical Entry Unloader



#### 特点:

- ◆ 用于垂直于线体方向下料, 有效缩短线体长度
- ◆ SMT 生产线电路板的下板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ 多重电气配电路保护, 安全可靠
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ It is used for sending out the direction perpendicular to the line body, effectively shortening the length of the line body
- ◆ SMT production line circuit board upper board device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function

#### 技术参数 Technical Parameters

描述 / Description	用于自动从生产线收集电路板 For automatic collection of circuit boards from the production line
料箱数量 / No. of magazine	上层轨道1个; 下层轨道 1个 / Upper conveyor: 1nos. Lower conveyor: 1nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大300伏安 / 220V(AC,SP) 300VA max
气压及气流量 / Air pressure and air flow	4~6bar, 最多0.1升/分钟 / 4~6bar, Up to 0.1
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	LL	XL
型号 / Model	ZL-3BM	ZL-3BL	ZL-3BLL	ZL-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×390(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1100(L)×1280(W)×1200(H)	1210(L)×1560(W)×1200(H)	1460(L)×1620(W)×1200(H)	1460(L)×1690(W)×1200(H)
料箱尺寸 / Magazine size(mm)	355(L)×320(W)×565(H)	460(L)×400(W)×565(H)	535(L)×460(W)×570(H)	535(L)×530(W)×570(H)
料箱通俗名称 / Common name of magazine	803#	806#	808#	809#
大概重量 / Weight(kg)	185(kg)	235(kg)	285(kg)	300(kg)

## SL-3Z系列 吸送板机

### Vacuum Bare Loader



#### 特点:

- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ PLC 控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 标配两种上板模式特别适用于生产双面板的单线模式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ Top board device of SMT production line circuit board
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Standard two upper modes are especially suitable for production of single-line mode with double panel
- ◆ Optional AGV docking function



#### 技术参数 Technical Parameters

描述 / Description	用于自动从生产线收集电路板的操作 / For automated production line collection circuit board operations
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大800伏安 / 220V(AC,SP) 800VA max
气压及气流量 / Air pressure and air flow	4~6 bar, 最多0.2升/分钟 / 4~6bar, Up to 0.2 l/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

	M	L	LL	XL
型号 / Model	SLD-3BM	SLD-3BL	SLD-3BLL	SLD-3BXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×390(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions (mm)	1370(L)×1360(W)×1220(H)	2100(L)×1520(W)×1220(H)	1870(L)×1660(W)×1220(H)	2580(L)×1800(W)×1220(H)
料框型号 / Common name of magazine	803#	806#	808#	809#
料框数量 No. of magazine	上方轨道 Upper conveyor	1	2	1
	下方轨道 Lower conveyor	1	2	1
大概重量 / Weight(kg)	240(kg)	330(kg)	400(kg)	430(kg)

#### 技术参数 Technical Parameters

描述 / Description	用于自动往生产线送出电路板的操作 / Used to automatically send circuit boards to the production line
料箱数量 / No. of magazine	上层轨道 1个; 下层轨道 2个 / Upper conveyor: 1nos. Lower conveyor: 2nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over Time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大600伏安 / 220V(AC,SP) 600VA max
气压及气流量 / Air pressure and air flow	4~6 bar, 最多0.2升/分钟 / 4~6bar, Up to 0.2 l/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

大小 / Size	M	L	XL
型号 / Model	SL-3ZM	SL-3ZL	SL-3ZXL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×250(W)	80(L)×50(W)-460(L)×330(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions (mm)	2030(L)×1050(W)×1760(H)	2030(L)×1050(W)×1760(H)	2550(L)×1080(W)×1200(H)
料箱通俗名称 / Common name of magazine	803#	806#	803# & 809#
大概重量 / Weight(kg)	245(kg)	355(kg)	400(kg)

## SLD-3系列 双框收板机

### Dual Magazine Unloader

#### 特点:

- ◆ SMT 生产线电路板的收板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ PLC 控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 标配多种收板模式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ Top board device of SMT production line circuit board
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Standard multiple pickup modes
- ◆ Optional AGV docking function



## SL-650 重型全自动上板机

### Heavy Automatic Loader

#### 特点:

- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ 多重电气配电回路保护, 安全可靠
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ SMT production line circuit board upper board device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function



## ZL-650 重型全自动收板机

### Heavy Automatic Unloader

#### 特点:

- ◆ SMT 生产线电路板的收板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板力度速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ 多重电气配电回路保护, 安全可靠
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式
- ◆ 可选配AGV对接功能

#### Features:

- ◆ SMT production line circuit board closing device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication
- ◆ Optional AGV docking function



#### 技术参数 Technical Parameters

描述 / Description	用于自动从生产线送出/收集电路板的操作 / For automated production line collection circuit board operations
料箱数量 / No. of magazine	上层轨道 1个; 下层轨道 1个 / Upper conveyor: 1nos. Lower conveyor: 1nos.
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
料箱更换时间 / Magazine change over time	约35秒或用户指定 / Approx. 35 seconds or specified by customer
步距选择 / Indexing pitch	10,20,30,40毫米或用户指定 / 10,20,30,40 mm pitch or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大800伏安 / 220V(AC,SP) 800VA max
气压及气流量 / Air pressure and air flow	4~6 bar, 最多0.2升/分钟 / 4~6bar, Up to 0.2 l/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

型号 / Model	SL-650	ZL-650
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-700(L)×650(W)	80(L)×50(W)-700(L)×650(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	2010(L)×1300(W)×1760(H)	2910(L)×1300(W)×1760(H)
料框尺寸 / Dimensions of magazine(mm)	700(L)×700(W)×570(H)	700(L)×700(W)×570(H)
大概重量 / Weight(kg)	250(kg)	280(kg)



## ZK系列 真空吸板机

### Vacuum Bare Board Loader

#### 特点:

- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用独立的多套真空发生系统, 吸附稳定可靠
- ◆ 置板平台自动升降上升, 上板速度快
- ◆ PLC 控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式

#### Features:

- ◆ SMT production line circuit board upper board device
- ◆ PLC control, color HMI operation system
- ◆ Using multiple independent vacuum generating systems, stable and reliable adsorption
- ◆ The platform platform automatically rises and falls to get to work faster
- ◆ PLC control control system, multiple electrical circuit protection design which are security and stability
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication



#### 技术参数 Technical Parameters

描述 / Description	用于自动往生产线送出电路板的操作 Used to automatically send circuit boards to the production line
电路板的上板时间 / Time for feed PCBs	约8秒或用户指定 / Approx. 8 seconds or specified by customer
电路板最大容量 / Board maximum capacity	200片 (0.6毫米厚电路板) / 200pcs(0.6mm thick PCB)
电源及电负荷 / Power supply and electric load	220V交流, 单相最大120伏安 / 220V(AC,SP) 120VA max
气压及气流量 / Air pressure and air flow	4~6bar, 最多30升/分钟 / 4~6bar, Up to 30 L/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

型号 / Model	ZK-650	ZK-800	ZK-1500-460
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-510(L)×450(W)	80(L)×50(W)-600(L)×610(W)	80(L)×50(W)-1200(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	650(L)×1200(W)×1200(H)	800(L)×1560(W)×1200(H)	1500(L)×1200(W)×1200(H)
大概重量 / Weight(kg)	175(kg)	210(kg)	200(kg)

## ZK系列 AGV真空吸板机

### AGV Vacuum Bare Board Loader

#### 特点:

- ◆ 对接AGV小车无需人工上料, 实现全程无人化作业
- ◆ 可选择半自动化作业模式, 单次裸板上料可达重量30KG, 高度300mm
- ◆ 每次可投入2叠同等产品, 循环上线, 减少待料时间

#### Features:

- ◆ AGV trolley is automatically loaded to realize unmanned operation in the whole process Standard SMEMA signal communication
- ◆ The semi-automatic operation mode can be selected, and the one-time bare board feeding can reach 30kg, with a height of 300mm
- ◆ Two stacks of equivalent products can be put into each time, which can be put online circularly to reduce the waiting time

#### 技术参数 Technical Parameters

描述 / Description	用于自动往生产线送出电路板的操作 Used to automatically send circuit boards to the production line
电路板的上板时间 / Time for feed PCBs	约8秒或用户指定 / Approx. 8 seconds or specified by customer
电路板最大容量 / Board maximum capacity	200片 (0.6毫米厚电路板) / 200pcs(0.6mm thick PCB)
电源及电负荷 / Power supply and electric load	220V交流, 单相最大120伏安 / 220V(AC,SP) 120VA max
气压及气流量 / Air pressure and air flow	4~6bar, 最多30升/分钟 / 4~6bar, Up to 30 L/min
电路板厚度 / Thickness of PBCs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

型号 / Model	ZK-450X-750	ZK-750X-1000
线路板有效尺寸 / Circuit board effective size(mm)	510(L)×460(W)	700(L)×550(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	750(L)×1500(W)×1750(H)	900(L)×1610(W)×1750(H)
大概重量 / Weight(kg)	500(kg)	600(kg)



## PTUC 系列 非接触式除尘机

Contactless Dust Remover



### 特点：

- ◆ PLC控制，彩色人机界面操作
- ◆ 标准SMEMA信号通讯方式
- ◆ 非接触式离子风除尘，负压收尘，不接触产品表面

### Features:

- ◆ PLC control, color HMI operation system
- ◆ Standard SMEMA signal communication
- ◆ Non contact ion wind dust removal, negative pressure dust collection, not touching the product surface

### 技术参数 Technical Parameters

描述 / Description	用于上板机和印刷机之间，适合AI和SMT制程清洁需求，或非常高标准清洁需要 Used between the upper plate and the printer, suitable for AI and SMT process cleaning needs, or very high standard cleaning requirements
毛刷转速 / Brush speed	步进马达200~1200转/分钟 (数据设定) Stepping motor 200~1200 rev/min(Data setting)
电源及电负荷 / Power supply and electric load	1P 3W AC 220 50/60Hz 功率50W / 1P 3W AC 220 50/60Hz Power:50W
气压及气流量 / Air pressure and air flow	4~6 Kg/cm <sup>2</sup> ,进气管大小8mm / 4~6Kg/cm <sup>2</sup> , Intake pipe size 8mm
电路板厚度 / Thickness of PCBs	最小0.7-3mm / 0.7~3mm min

### 规格参数 Specifications & Parameters

型号 / Model	PTUC-500
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×60(W)-500(L)×380(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	800(L)×900(W)×1600(H)
大概重量 / Weight(kg)	340(kg)

## PTCC 系列 接触式除尘机

Dust Remover

### 特点：

- ◆ PLC 控制，彩色人机界面操作
- ◆ 标准SMEMA信号通信方式
- ◆ 可应用在AI后SMT制程PCB清洁，滚轮、毛刷可独立清洁工作，灵活性大
- ◆ 专利耦合传动结构，更利机器运行，更长部件寿命
- ◆ 滚轮组及支撑组抽屉式设计方便操作保养

### Features:

- ◆ PLC control, Color HMI operation system
- ◆ Standard SMEMA signal communication
- ◆ Can be applied to SMT process PCB cleaning after AI, roller, brush can be cleaned independently, flexibility, optional vacuum cleaning
- ◆ Patented coupled drive structure for better machine operation and longer component life
- ◆ Roller set and support group drawer design for easy operation and maintenance

### 技术参数 Technical Parameters

描述 / Description	用于上板机和印刷机之间，适合AI和SMT制程清洁需求，或非常高标准清洁需要 Used between the upper plate and the printer, suitable for AI and SMT process cleaning needs, or very high standard cleaning requirements
毛刷转速 / Brush speed	步进马达200~1200转/分钟 (数据设定) Stepping motor 200~1200 rev/min(Data setting)
电源及电负荷 / Power supply and electric load	1P 3W AC 220 50/60Hz 功率50W / 1P 3W AC 220 50/60Hz Power:50W
气压及气流量 / Air pressure and air flow	4~6 Kg/cm <sup>2</sup> ,进气管大小8mm / 4~6Kg/cm <sup>2</sup> , Intake pipe size 8mm
电路板厚度 / Thickness of PCBs	最小0.7-3mm / 0.7~3mm min

### 规格参数 Specifications & Parameters

大小 / Size	L	XL
型号 / Model	PTCC-350	PTCC-460
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×60(W)-510(L)×380(W)	80(L)×60(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	675(L)×1030(W)×1350(H)	675(L)×1030(W)×1350(H)
大概重量 / Weight(kg)	165(kg)	165(kg)



## DL系列 自动跌落式上板机

Automatic Drop Loader

### 特点：

- ◆ 采用PLC自动控制，富士按钮操作
- ◆ 钣金加重结构，稳定可靠
- ◆ 直通及跌板工作模式可选
- ◆ 使用钛钢推板刀片，弹性强，不易变形
- ◆ 标准的SMEMA通信方式

### Features:

- ◆ Using PLC automatic control, Fuji button operation
- ◆ Sheet metal weighted structure which are stable and reliable
- ◆ Straight-through and fall-plate working mode optional
- ◆ Use titanium steel push blade, strong elasticity, not easily deformed
- ◆ Standard SMEMA signal communication

### 技术参数 Technical Parameters

描述 / Description	用于光板的自动上板操作 Automatic board operation for light boards
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx.6 seconds or specified by customer
电路板最大容量 / Board maximum capacity	200片 (0.6毫米厚电路板) / 200pcs(0.6mm thick PCB)
电源及电负荷 / Power supply and electric load	220V交流，单相最大150伏安 / 220V(AC,SP) 150VA max
气压及气流量 / Air pressure	4~6 bar,最多30升/分钟 / 4~6bar, Up to30 L/min
电路板厚度 / Thickness of PCBs	0.6~4.0mm

### 规格参数 Specifications & Parameters

型号 / Model	外形尺寸 / Dimensions(mm)	线路板有效尺寸 / Circuit board effective size(mm)	大概重量 / Weight(kg)
DL-460	600(L)×990(W)×1200(H)	50(L)×50(W)-500(L)×550(W)	130(kg)
DL-550	750(L)×1000(W)×1200(H)	50(L)×50(W)-700(L)×550(W)	180(kg)



## DZ系列 自动顶板式收板机

Automatic Roof Type Unloader

### 特点：

- ◆ 采用PLC自动控制，富士按钮操作
- ◆ 钣金加重结构，稳定可靠
- ◆ 直通及顶板工作模式可选
- ◆ 使用钛钢推板刀片，弹性强，不易变形
- ◆ 标准的SMEMA通信方式

### Features:

- ◆ Using PLC automatic control, Fuji button operation
- ◆ Sheet metal weighted structure which are stable and reliable
- ◆ Straight-through and fall-plate working mode optional
- ◆ Use titanium steel push blade, strong elasticity, not easily deformed
- ◆ Standard SMEMA signal communication

### 技术参数 Technical Parameters

描述 / Description	用于光板的自动收板操作 For light board automatic closing operation
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx.6 seconds or specified by customer
电路板最大容量 / Board maximum capacity	200片 (0.6毫米厚电路板) / 200pcs(0.6mm thick PCB)
电源及电负荷 / Power supply and electric load	220V交流，单相最大150伏安 / 220V(AC,SP) 150VA max
气压及气流量 / Air pressure	4~6bar,最多30升/分钟 / 4~6bar, Up to30 L/min
电路板厚度 / Thickness of PCBs	1.0~4.0mm

### 规格参数 Specifications & Parameters

型号 / Model	外形尺寸 / Dimensions(mm)	线路板有效尺寸 / Circuit board effective size(mm)	大概重量 / Weight(kg)
DZ-460	600(L)×975(W)×1200(H)	50(L)×50(W)-500(L)×550(W)	130(kg)
DZ-550	730(L)×975(W)×1200(H)	50(L)×50(W)-700(L)×550(W)	180(kg)





## ML系列 微型上板机

### Mini Loader

#### 特点:

- ◆ SMT 生产线电路板的上板装置
- ◆ PLC 控制, 彩色人机界面操作
- ◆ 采用步进马达推板结构, 推板速度均可调
- ◆ 辅助定位刹车系统, 定位精确, 升降速度快, 生产效率高
- ◆ 声光提示报警系统, 异常信息文字提示, 操作维护简便
- ◆ 标准SMEMA信号通信方式



#### Features:

- ◆ SMT production line circuit board upper board device
- ◆ PLC control, color HMI operation system
- ◆ Stepping motor push plate structure, pushing plate speed is adjustable
- ◆ Auxiliary positioning braking system, accurate positioning, fast lifting speed and high production efficiency
- ◆ Sound and light alarm system, abnormal information text prompts, easy operation and maintenance
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	用于自动从生产线送出电路板的操作 / Used to automatically send circuit boards to the production line
电路板的上板时间 / Time for feed PCBs	约6秒或用户指定 / Approx. 6 seconds or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大800伏安 / 220V(AC,SP) 800VA max
电路板厚度 / Thickness of PCBs	最小0.6mm / 0.6mm min

#### 规格参数 Specifications & Parameters

型号 / Model	ML-500	ML-800
线路板有效尺寸 / Circuit board effective size(mm)	60(L)×60(W)-400(L)×300(W)	60(L)×60(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions (mm)	500(L)×650(W)×1500(H)	850(L)×850(W)×1565(H)
产品层距 / Layer spacing of product(mm)	10(mm)	10(mm)
最大存板数量 / Maximum number of boards	48	48
大概重量 / Weight(kg)	80(kg)	110(kg)

## ZCL-3BLII 储存式暂存机

### Automatic Storage Buffer Stocker

#### 特点:

- ◆ 人机界面控制操作, 简单方便
- ◆ PLC控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 采用先进先出功能
- ◆ 伺服定位系统, 定位精度高, 升降速度快, 生产效率高, 存板量大
- ◆ 标准SMEMA信号通讯方式

#### Features:

- ◆ HMI operation system interface control operation which are very simple and convenient.
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Adopt FIFO function
- ◆ Servo positioning system, high positioning accuracy, fast lifting speed, high production efficiency, and large amount of storage
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	线体后半段, 通常为炉后缓冲 / In the second half of the body, usually after the furnace
循环时间 / Board maximum capacity	约30秒 / About 30S
电源及电负荷 / Power supply and electric load	单相220V 交流电最大3500瓦 / Single-phase 220V AC Up to 3500W
气压及气流量 / Air pressure	4~6bar

#### 规格参数 Specifications & Parameters

型号 / Model	ZCL-3BLII
线路板有效尺寸 / Circuit board effective size(mm)	510(L)×510(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	2330(L)×1110(W)×2015(H)
大概重量 / Weight(kg)	1000(kg)
是否带冷却功能 / Whether with cooling function	无/No cooling
最大存板数量 / Maximum number of boards	130(分两段Two segments)



## ZCL-3BL 储存式冷却暂存机

### Automatic cooling Storage Buffer Stocker

#### 特点:

- ◆ 人机界面控制操作, 简单方便
- ◆ PLC控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 采用先进先出功能
- ◆ 伺服定位系统, 定位精度高, 升降速度快, 生产效率高, 存板量大
- ◆ 标准SMEMA信号通讯方式

#### Features:

- ◆ HMI operation system interface control operation which are very simple and convenient.
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Adopt FIFO function
- ◆ Servo positioning system, high positioning accuracy, fast lifting speed, high production efficiency, and large amount of storage
- ◆ Standard SMEMA signal communication



#### 技术参数 Technical Parameters

描述 / Description	线体后半段, 通常为炉后缓冲 / In the second half of the body, usually after the furnace
循环时间 / Board maximum capacity	约30秒 / About 30S
电源及电负荷 / Power supply and electric load	单相220V 交流电最大3500瓦 / Single-phase 220V AC Up to 3500W
气压及气流量 / Air pressure	4~6bar

#### 规格参数 Specifications & Parameters

型号 / Model	ZCL-3BL
线路板有效尺寸 / Circuit board effective size(mm)	510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1750(L)×1120(W)×1950(H)
大概重量 / Weight(kg)	650(kg)
是否带冷却功能 / Whether with cooling function	带冷却 / With cooling
最大存板数量 / Maximum number of boards	40

## ZLL-650 重型NG/OK暂存机

### Heavy NG/OK Buffer Stocker

#### 特点:

- ◆ 人机界面控制操作, 功能切换, 简便更易懂
- ◆ PLC控制系统, 多重电气回路保护设计, 安全稳定
- ◆ 适用于重型或大型产品生产
- ◆ 综合多种功能, 先进先出、直通、NG/OK
- ◆ 伺服定位系统, 定位精确, 升降速度快, 生产效率高
- ◆ 标准SMEMA信号通信方式

#### Features:

- ◆ HMI operation system, Function switching, Easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ Suitable for heavy or large product production
- ◆ Comprehensive multiple functions, first-in, first-out, straight through, NG/OK
- ◆ Servo positioning system, precise positioning, fast lifting speed and high production efficiency
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT检测设备之后的NG筛选 Can be used for NG screening after SMT inspection equipment 可用于自动收集AOI检测NG/OK电路板到不同的层段 Can be used to automatically collect AOI inspection NG/OK circuit boards to different bins
循环时间 / Cycle time	约12秒 / About 12 Seconds
电源及电负荷 / Power supply and electric load	220V交流, 单相最大2200伏安 / 220V(AC,SP) 2200VA max

#### 规格参数 Specifications & Parameters

型号 / Model	ZLL-650
线路板有效尺寸 / Circuit board effective size(mm)	700(L)×650(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1600(L)×1300(W)×1760(H)
大概重量 / Weight(kg)	300(kg)
最大存板数量 / Maximum number of boards	10
单件产品最大重量 / Maximum weight of single product(kg)	10(kg)
产品层距 / Layer spacing of product(mm)	60(mm)



## ZCL-3系列 缓冲暂存机

### Automatic Buffer Stocker

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便易懂
- ◆ PLC 控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有25个pitch可供停板
- ◆ 综合多种功能，先进先出、先进后出、直通
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式

#### Features:

- ◆ HMI operation system interface control operation, function switching which are simple and easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 25 pitches available for temporary storage
- ◆ Integrate multiple functions, first-in, first-out, advanced-last-out, and direct-through
- ◆ Servo positioning system, high positioning accuracy, fast lifting speed, high production efficiency, and large amount of storage
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT机器之间起缓冲作用 Can be used to buffer between SMT machines 可用于自动收集AOI检测NG/OK电路板到不同的层段 Can be used to automatically collect AOI inspection NG/OK circuit boards to different bins
电路板容量 / Board capacity	30片或用户指定 / 30pcs or specified by customer
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大850伏安 / 220V(AC,SP) 850VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCL-3BM
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)+500(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	600(L)×1200(W)×1760(H)
大概重量 / Weight(kg)	155(kg)



## ZCLA-3系列 NG/OK 暂存机

### Automatic NG/OK Buffer Stocker

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便易懂
- ◆ PLC控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有25个pitch可供停板
- ◆ 综合多种功能，先进先出、直通、NG/OK
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式

#### Features:

- ◆ HMI operation system, Function switching, Easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 25 pitches available in the temporary storage area
- ◆ Comprehensive multiple functions, first-in, first-out, straight through, NG/OK
- ◆ Servo positioning system, precise positioning, fast lifting speed and high production efficiency
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT检测设备之后的NG筛选 / Can be used for NG screening after SMT inspection equipment 可用于自动收集AOI检测NG/OK电路板到不同的层段 / Can be used to automatically collect AOI inspection NG/OK circuit boards to different bins
电路板容量 / Board capacity	25片，可多用途选择NG/OK存板数量 / 25pcs, Can be used for multi-purpose selection of NG/OK storage boards
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大850伏安 / 220V(AC,SP) 850VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCLA-3L	ZCLA-3XL
线路板有效尺寸 / Circuit board effective size(mm)	400(L)×350(W)	510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1000(L)×1100(W)×1760(H)	1200(L)×1200(W)×1760(H)
大概重量 / Weight(kg)	240(kg)	300(kg)



## ZCLC-3系列 冷却型暂存机

### Automatic Cooling Buffer Stocker

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便易懂
- ◆ PLC控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有20个pitch可供停板
- ◆ 综合多种功能，先进先出、先进后出、直通
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式
- ◆ 创新结构，使板面全面接触冷风，降温速度快

#### Features:

- ◆ HMI operation system, Function switching, Easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 20 pitches available in the temporary storage area
- ◆ Comprehensive multiple functions, first-in first-out, advanced after, straight through
- ◆ Servo positioning system, precise positioning, fast lifting speed and high production efficiency
- ◆ Standard SMEMA signal communication
- ◆ Innovate the structure so that the board surface is in full contact with the cold wind and the cooling rate is fast

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT机器之间起缓冲作用 / Can be used to buffer between SMT machines 可用于回流焊或高温设备后，用于PCB快速冷却 / Can be used for PCB rapid cooling after reflow or high temperature equipment
电路板容量 / Board capacity	20片或用户指定 / 20pcs or specified by customer
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大850伏安 / 220V(AC,SP) 850VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCLC-3XL
线路板有效尺寸 / Circuit board effective size(mm)	700(L)×550(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	800(L)×1400(W)×1760(H)
大概重量 / Weight(kg)	300(kg)



## ZCLC-3-S系列 带平台冷却型暂存机

### Automatic Cooling Buffer Stocker With Platform

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便易懂
- ◆ PLC控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有20个pitch可供停板
- ◆ 综合多种功能，先进先出、先进后出、直通
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式
- ◆ 创新结构，使板面全面接触冷风，降温速度快

#### Features:

- ◆ HMI operation system, Function switching, Easy to understand
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 20 pitches available in the temporary storage area
- ◆ Comprehensive multiple functions, first-in first-out, advanced after, straight through
- ◆ Servo positioning system, precise positioning, fast lifting speed and high production efficiency
- ◆ Standard SMEMA signal communication
- ◆ Innovate the structure so that the board surface is in full contact with the cold wind and the cooling rate is fast

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT机器之间起缓冲作用 / Can be used to buffer between SMT machines 可用于回流焊或高温设备后，用于PCB快速冷却 / Can be used for PCB rapid cooling after reflow or high temperature equipment
电路板容量 / Board capacity	20片或用户指定 / 20pcs or specified by customer
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大850伏安 / 220V(AC,SP) 850VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCLC-3XL-S
线路板有效尺寸 / Circuit board effective size(mm)	510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1600(L)×1200(W)×1760(H)
大概重量 / Weight(kg)	300(kg)



## ZCL300-D系列 双轨暂存机

### Dual Buffer Stocker

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便更易懂
- ◆ PLC控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有2个框位，每框位20-25个pitch可供停板
- ◆ 综合多种功能，先进先出、直通、冷却
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式



#### Features:

- ◆ HMI operation system interface control operation which are very simple and convenient.
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 2 boxes in the temporary storage area, and 20-25 pitches per box are available for stopping
- ◆ Integrate multiple functions, first-in, first-out, advanced-last-out, and direct-through cooling
- ◆ Servo positioning system, high positioning accuracy, fast lifting speed, high production efficiency, and large amount of storage
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	可用于双轨线体缓存、冷却 It can be used for double track cache and cooling
电路板容量 / Board capacity	20-30片，可多用途选择NG/OK存板数量 / 20-30pcs, Can be used for multi-purpose selection of NG/OK storage boards
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
步距选择 / Step selection	30、60毫米或用户指定 / 30、60mm or specified by customer
电源及电负荷 / Power supply and electric load	220V交流，单相最大900伏安 / 220V(AC,SP) 900VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCL300-D	ZCL300-DL
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×300(W)	80(L)×50(W)-330(L)×300(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1500(L)×1500(W)×1760(H)	1500(L)×1500(W)×1760(H)
冷却功能 / Cooling function	无 / No	有 / Yes
NG/OK功能 / NG/OK function	无 / No	无 / No
大概重量 / Weight(kg)	200(kg)	220(kg)

## ZCL300-D系列 NG/OK双轨暂存机

### NG/OK Dual Buffer Stocker

#### 特点：

- ◆ 人机界面控制操作、功能切换，简便更易懂
- ◆ PLC控制系统，多重电气回路保护设计，安全稳定
- ◆ 暂存区有2个框位，每框位20-25个pitch可供停板
- ◆ 综合多种功能，先进先出、直通、NG/OK
- ◆ 伺服定位系统，定位精确，升降速度快，生产效率高
- ◆ 标准SMEMA信号通信方式

#### Features:

- ◆ HMI operation system interface control operation which are very simple and convenient.
- ◆ PLC control system, multiple electrical circuit protection design which are security and stability
- ◆ There are 2 boxes in the temporary storage area, and 20-25 pitches per box are available for stopping
- ◆ Integrate multiple functions, first-in, first-out, advanced-last-out, and direct-through NG/OK
- ◆ Servo positioning system, high positioning accuracy, fast lifting speed, high production efficiency, and large amount of storage
- ◆ Standard SMEMA signal communication

#### 技术参数 Technical Parameters

描述 / Description	可用于SMT检测设备之后的NG筛选 Can be used for NG screening after SMT inspection equipment 可用于自动收集AOI检测NG/OK电路板到不同的料框 Can be used to automatically collect AOI inspection NG/OK circuit boards to different bins
电路板容量 / Board capacity	20-30片，可多用途选择NG/OK存板数量 / 20-30pcs, Can be used for multi-purpose selection of NG/OK storage boards
最大承重负荷 / Maximum load	1.5千克/PCB / 1.5kg/PCB
循环时间 / Cycle time	约12秒 / About 12 Seconds
步距选择 / Step selection	30、60毫米或用户指定 / 30、60mm or specified by customer
电源及电负荷 / Power supply and electric load	220V交流，单相最大900伏安 / 220V(AC,SP) 900VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	ZCL300-DN
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-330(L)×300(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1500(L)×1500(W)×1760(H)
冷却功能 / Cooling function	无 / No
NG/OK功能 / NG/OK function	有 / Yes
大概重量 / Weight(kg)	200(kg)



## PTG系列 翻转输送机

### PCB Inverting Conveyor

#### 特点：

- ◆ 翻转机构封闭式设计保证最高的安全防护等级
- ◆ PLC控制系统，彩色触摸屏操作界面
- ◆ 平衡、精准的翻转模式，辅助保持定位结构
- ◆ 翻转后可进板模式，减少循环时间
- ◆ 兼容的SMEMA通信方式

#### Features:

- ◆ Closed design of the turnover mechanism guarantees the highest level of safety protection
- ◆ PLC control system, color touch screen operation interface
- ◆ Balanced, accurate flip mode, assisted in maintaining the positioning structure
- ◆ Plate mode after flip, reducing cycle time
- ◆ Compatible SMEMA Communication



#### 技术参数 Technical Parameters

描述 / Description	用于翻转电路板(180度) Used to flip the circuit board(180°)
循环时间 / Cycle time	约8秒 / About 8 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大150伏安 / 220V(AC,SP) 150VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTG-460	PTG-550
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-510(L)×460(W)	80(L)×50(W)-700(L)×550(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	600(L)×1100(W)×1200(H)	750(L)×1100(W)×1200(H)
大概重量 / Weight(kg)	150(kg)	200(kg)

## PTF系列 平面转角机

### Turn Conveyor

#### 特点：

- ◆ 旋转机构封闭式设计保证最高的安全防护等级
- ◆ PLC控制系统，彩色触摸屏操作界面
- ◆ 步进马达控制旋转方式，高效稳定，定位精准
- ◆ 旋转方向可自由多模式选择，使用方便
- ◆ 兼容的SMEMA通信方式

#### Features:

- ◆ The closed design of the rotating mechanism guarantees the highest level of safety protection
- ◆ PLC control system, color HMI operation system
- ◆ Stepping motor control rotation, efficient and stable, accurate positioning
- ◆ The direction of rotation can be freely selected by multiple modes, which is easy to use
- ◆ Compatible SMEMA Communication

#### 技术参数 Technical Parameters

描述 / Description	用于调整电路板的运行方向至不同的路径 \ Used to adjust the board's running direction to different paths
循环时间 / Cycle time	约15秒 / About 15 Seconds
电源及电负荷 / Power supply and electric load	220V交流，单相最大120伏安 / 220V(AC,SP) 120VA max
电路板厚度 / Board thickness	最小0.6mm / Min. 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTF-250	PTF-460
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-350(L)×310(W)	80(L)×50(W)-510(L)×500(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	600(L)×600(W)×1200(H)	800(L)×800(W)×1200(H)
大概重量 / Weight(kg)	100(kg)	150(kg)



## PTD系列 常开式伸缩闸门输送机

### Normally Opened Telescopic Gate Conveyor

#### 特点：

- ◆ 800mm毫米宽通道或用户指定多重保护检测，安全可靠
- ◆ 缓冲刹车定位系统，配合平移滑轨，运行稳定
- ◆ PLC 控制系统，通用SMAME通信方式

#### Features:

- ◆ 800mm wide channel or specified by customer with multiple protection detection, safe and reliable
- ◆ Buffer brake positioning system with the translation slide which is stable operation
- ◆ PLC control system, universal SMAME communication



#### 技术参数 Technical Parameters

描述 / Description	用于对通道有需求的生产线 Production line for channel requirements
循环时间 / Cycle time	约10秒 / About 10 seconds
输送速度 Conveyor speed	0.5-20米/分钟或用户指定 0.5-20Meter/Mins or specified by customer
电源及电负荷 Power supply and electric load	220V交流，单相最大300伏安 Single-phase 220V AC Up to 120VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTD-460	PTD-550	PTD-D300
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-510(L)×460(W)	80(L)×50(W)-700(L)×550(W)	80(L)×50(W)-700(L)×300(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1000展开1700 (L) / 1200展开1900 (L) 1000 Unfold 1700(L) / 1200 Unfold 1900(L)	1200 展开1900 (L) 1200 Unfold 1900(L)	1000展开1700 (L) / 1200展开1900 (L) 1000 Unfold 1700(L) / 1200 Unfold 1900(L)
	790(W) 1090(H)	880(W) 1090(H)	1040(W) 1090(H)
大概重量 / Weight(kg)	120(kg)	160(kg)	200(kg)



## PTS系列 常闭式伸缩闸门输送机

### Normally Closed Telescopic Gate Conveyor

#### 特点：

- ◆ 800mm毫米宽通道或用户指定多重保护检测，安全可靠
- ◆ 缓冲刹车定位系统，配合平移滑轨，运行稳定
- ◆ PLC 控制系统，通用SMAME通信方式
- ◆ 两段式，生产时一段轨道伸出，空缺处由另一段轨道下降补充，形成静止，稳定的输送轨道，不用重复伸缩，需通过时，按动通过按钮，轨道缩回，通过后自动伸出。

#### Features:

- ◆ 800mm wide channel or specified by customer with multiple protection detection, safe and reliable
- ◆ Buffer brake positioning system with the translation slide which is stable operation
- ◆ PLC control system, universal SMAME communication
- ◆ In two-stage mode, during production, one track extends, and the vacancy is supplemented by the descent of another track, forming a static and stable conveying track, without repeated expansion and contraction. When it is necessary to pass, press the pass button, the track retracts, and automatically extends after passing.

#### 技术参数 Technical Parameters

描述 / Description	用于对通道有需求的生产线 Production line for channel requirements
循环时间 / Cycle time	约10秒 / About 10 seconds
输送速度 / Conveyor speed	0.5-20米/分钟或用户指定 0.5-20Meter/Mins or specified by customer
电源及电负荷 Power supply and electric load	220V交流，单相最大300伏安 Single-phase 220V AC Up to 120VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTS-650
线路板有效尺寸/Circuit board effective size(mm)	50(L)×50(W)-700(L)×650(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1000 展开1600 (L) / 1000 Unfold 1600(L)
	1100(W) 1470(H)
大概重量 / Weight(kg)	150(kg)

## PTE系列 升降式闸门输送机

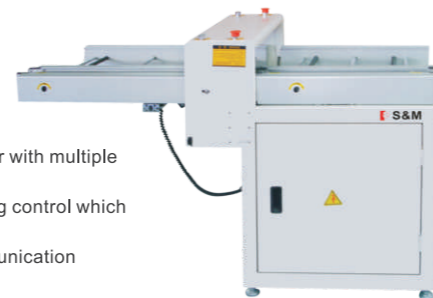
### Lift Gate Conveyor

#### 特点：

- ◆ 650mm毫米宽通道或用户指定多重保护检测，安全可靠
- ◆ 气缸升降及附加辅助定位控制，升降灵活、稳定
- ◆ PLC 控制系统，通用SMAME通信方式

#### Features:

- ◆ 650mm wide channel or specified by customer with multiple protection detection, safe and reliable
- ◆ Cylinder lift and additional auxiliary positioning control which are flexible and stable lifting
- ◆ PLC control system, universal SMAME communication



#### 技术参数 Technical Parameters

描述 / Description	用于对通道有需求的生产线 Production line for channel requirements
循环时间 / Cycle time	约10秒 / About 10 seconds
输送速度 / Conveyor speed	0.5-20米/分钟或用户指定 0.5-20Meter/Mins or specified by customer
电源及电负荷 Power supply and electric load	220V交流，单相最大300伏安 Single-phase 220V AC Up to 120VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTE-350	PTE-460
线路板有效尺寸/Circuit board effective size(mm)	80(L)×50(W)-400(L)×350(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	750 展开1200 (L) 750 Unfold 1200(L)	950 展开1600 (L) 950 Unfold 1600(L)
	580(W) 1050(H)	690(W) 1050(H)
大概重量 / Weight(kg)	120(kg)	140(kg)

## PTK-D系列 双机头平行移栽机

### Dual Station Shuttle Conveyor

#### 特点：

- ◆ 半封闭式设计保证最高的安全防护等级
- ◆ PLC 控制系统，彩色触摸屏操作界面
- ◆ 全数据数据输入定位，操作简便易懂
- ◆ 进出板位置、方向可自由选择
- ◆ 快速、平稳、精准的位移定位
- ◆ 自动宽窄调节，位移采用精密丝杆传动
- ◆ 兼容的SMEMA通信方式

#### Features:

- ◆ Semi-closed design ensures the highest level of safety protection
- ◆ PLC control system, Color touch screen operator interface
- ◆ Full data data input positioning, easy to understand and operate
- ◆ Access to board position, direction can be freely chosen
- ◆ Fast, smooth and precise displacement positioning
- ◆ Automatic width and width adjustment, displacement using precision screw drive
- ◆ Compatible SMEMA Communication



#### 技术参数 Technical Parameters

描述 / Description	用于调整电路板的运行方向至不同的路径 Used to adjust the board's running direction to different paths
循环时间 / Cycle time	由具体行程与要求来定 Determined by the specific itinerary and requirements
电源及电负荷 / Power supply and electric load	220V交流，单相最大120伏安 Single-phase 220V AC Up to 120VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

## PTK系列 单机头平行移栽机

### Single Station Shuttle Conveyor

#### 特点：

- ◆ 半封闭式设计保证最高的安全防护等级
- ◆ PLC 控制系统，彩色触摸屏操作界面
- ◆ 全数据数据输入定位，操作简便易懂
- ◆ 进出板位置、方向可自由选择
- ◆ 快速、平稳、精准的位移定位
- ◆ 自动宽窄调节，位移采用精密丝杆传动
- ◆ 兼容的SMEMA通信方式

#### Features:

- ◆ Semi-closed design ensures the highest level of safety protection
- ◆ PLC control system, Color touch screen operator interface
- ◆ Full data data input positioning, easy to understand and operate
- ◆ Access to board position, direction can be freely chosen
- ◆ Fast, smooth and precise displacement positioning
- ◆ Automatic width and width adjustment, displacement using precision screw drive
- ◆ Compatible SMEMA Communication



#### 技术参数 Technical Parameters

描述 / Description	用于调整电路板的运行方向至不同的路径 Used to adjust the board's running direction to different paths
循环时间 / Cycle time	由具体行程与要求来定 Determined by the specific itinerary and requirements
电源及电负荷 / Power supply and electric load	220V交流，单相最大120伏安 Single-phase 220V AC Up to 120VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTK-D350	PTK-D460	PTK-460
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-450(L)×350(W)	80(L)×50(W)-540(L)×460(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	根据客户生产线实际排布来定 According to the actual arrangement of the customer's production line		
	500/600(L)	500/600(L)	500/600(L)
大概重量 / Weight(kg)	300(kg)	300(kg)	150(kg)
	1500(W)	1500(W)	1000(H)

## PTH系列 换边输送机

### Transposition Conveyor

#### 特点:

- ◆ PLC 控制系统, 彩色触摸屏操作界面
- ◆ 步进传动、位移、旋转系统, 高效稳定, 定位精准
- ◆ 教导式设定操作, 全数字设定, 操作简单易懂
- ◆ 宽进窄出、窄进宽出、直通等多种工作模式可选
- ◆ 兼容的SMEMA通信方式

#### Features:

- ◆ PLC control system, Color touch screen operator interface
- ◆ Stepping drive, displacement, rotation system, high efficiency and stability, accurate positioning
- ◆ Teaching setting operation, all-digital setting which is easy to understand
- ◆ Wide into narrow out, narrow into wide out, straight through and other work modes optional
- ◆ Compatible SMEMA Communication



#### 技术参数 Technical Parameters

描述 / Description	用于变换电路板宽窄边运行方式(180度) Used to change the width and width of the circuit board(180°)
循环时间 / Cycle time	约8秒 / About 8 seconds
电源及电负荷 / Power supply and electric load	220V交流, 单相最大200伏安 / Single-phase 220V AC Up to 200VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTH-460
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×100(W)-510(L)×510(W)
传输高度 / Transmission height(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	1200(L)×950(W)×1650(H)
大概重量 / Weight(kg)	130(kg)

## PTB-F系列 筛选式 (双轨) 输送机

### Reject Conveyor

#### 特点:

- ◆ 绿色扁平进口防静电传输皮带, 经久耐用, 维护简易
- ◆ 钣金加重结构, 整机稳重, 不易移位
- ◆ PLC 控制系统, 通用SMEMA通信方式
- ◆ 人机交互界面, 操作简单易懂
- ◆ 多重电气配电回路保护, 安全可靠
- ◆ 用于双轨线体检测设备后NG筛选, 也可用于缓存, 层数3-25层

#### Features:

- ◆ Green flat import anti-static transmission belt which are long-term use and easy maintenance
- ◆ Sheet metal weighting structure which are stable machine and not easy to shift
- ◆ PLC control system, universal SMEMA communication method
- ◆ HMI interaction interface and easy to understand
- ◆ Multiple electrical distribution circuit protection, safe and reliable
- ◆ It is used for ng screening after dual track line detection equipment, and it can also be used for caching. Number of floors: 3-25



#### 技术参数 Technical Parameters

描述 / Description	用于SMT设备间的NG产品临时少量暂存 Temporary storage of NG products for SMT devices
循环时间 / Cycle time	0.5-20米/分钟或用户指定 / 0.5-20Meter/Mins or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大300伏安 / Single-phase 220V AC Up to 300VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTB-F460	PTB-F460-D
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-510(L)×460(W)	80(L)×50(W)-510(L)×460(W)
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)
外形尺寸 / Dimensions(mm)	600/800/1000(L)×780(W)×900(H)	1000/800(L)×1000(W)×900(H)
大概重量 / Weight(kg)	120(kg)	160(kg)

## PTB/PTC系列 接驳台/检查台

### Conveyor / Inspection conveyor

#### 特点:

- ◆ 在输送机基础上配置有活动工作台、文件看板、照明灯架
- ◆ 照明亮度, 作业高度等均人性化设计, 作业更高效、方便、实用
- ◆ 绿色扁平进口防静电传输皮带, 经久耐用, 更换容易
- ◆ 钣金加重结构, 整体稳重, 不易移位
- ◆ 轨道出入口独立安装式导向延伸块, 便于调节及更换
- ◆ PLC控制系统, 通过SMEMA通信方式

#### Features:

- ◆ On the conveyor base is equipped with an active work table, document signage, lighting fixtures
- ◆ The lighting brightness, working height, etc. are user-friendly and the operation is more efficient, convenient and practical.
- ◆ Green flat imported anti-static transmission belt, durable, easy to replace
- ◆ Sheet metal weights the structure, the overall stability, not easy to shift
- ◆ Track entrance and exit independent installation guide extension block for easy adjustment and replacement
- ◆ PLC control system, through SMEMA communication mode

#### 选配功能:

- ◆ 二段传输或多段传输 (每段长度最小0.5米); 两段独立调节宽窄方式
- ◆ 安装散热风扇、阻挡气缸、置物台、防尘罩等附加配置
- ◆ 与扫描仪配合检查功能、与AOI配合NG/OK通信功能等特殊程序要求
- ◆ 可选传输速度: 50~250mm, 50~350mm, 50~460mm, 50~510mm

#### Optional features:

- ◆ Two-segment transmission or multiple-segment transmission (minimum 0.5m in length); two independent adjustments of width
- ◆ Install cooling fan, block cylinder, platform, dust cover and other additional configuration
- ◆ Special program requirements such as cooperation with the scanner, AOI and NG/OK communication function
- ◆ Optional transmission speed: 50~250mm, 50~350mm, 50~460mm, 50~510mm

#### 技术参数 Technical Parameters

描述 / Description	用于SMT设备间的接驳或操作人员检查 / Used for connection or operator inspection between SMT equipment
输送速度 / Conveyor speed	0.5-20米/分钟或用户指定 / 0.5-20 Meter/Mins or specified by customer
电源及电负荷 / Power supply and electric load	220V交流, 单相最大300伏安 / Single-phase 220V AC Up to 300VA
电路板厚度 / Board thickness	最小0.6mm / Minimum 0.6mm

#### 规格参数 Specifications & Parameters

型号 / Model	PTB-460	PTC-460	PTB-D300
线路板有效尺寸 / Circuit board effective size(mm)	80(L)×50(W)-510(L)×460(W)	80(L)×50(W)-510(L)×460(W)	两边最大宽度300/ Maximum width of both sides 300
传输高度 / Transmission height(mm)	900±20(mm)	900±20(mm)	
外形尺寸 / Dimensions(mm)	500~2500(L)	500~2500(L)	500~1500(L)
	630(W)	740(W)	750(W)
	900(H) (照明灯架高度为1800mm / The height of the illuminator is 1800mm)		
大概重量 / Weight(kg)	50-130(kg)	65-170(kg)	70-145(kg)



荣誉客户

CUSTOMER

国内客户 Domestic capital customers

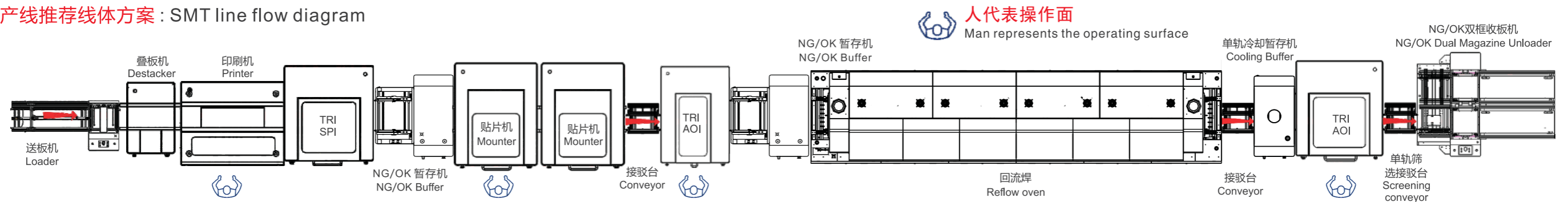
港、澳、台客户  
Hongkong, Macao and Taiwan customers

外資客户 Foreign customers

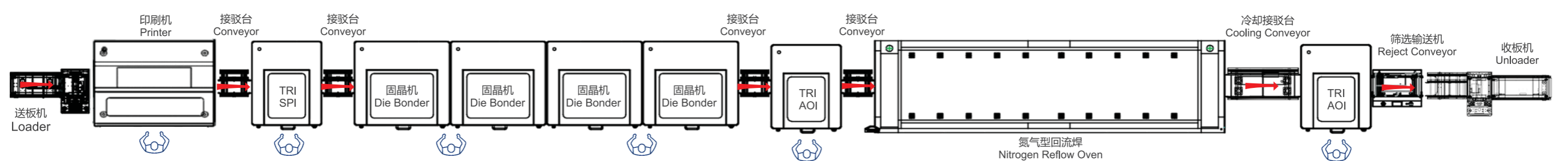


以上客户排列不分先后 / The above customers are arranged in no particular order.

SMT 产线推荐线体方案 : SMT line flow diagram



Mini LED 产线推荐线体方案 : Mini LED line flow diagram



固化制程推荐线体方案 : Curing process line flow diagram

