SINGRAIN 新锐自动化

技术参数 Technical parameters

• SW-320S/F



• SW-320-YT



• SW-450-YT



	设备型号 Equipment Model No.	SW-320S/F(分体) (Separation)	SW-320-YT	SW-450-YT
PCB/元件 PCB/components	PCB板尺寸 PCB board dimension	20*20~320*250 mm	20*20~320*250 mm	20*20~450*400 mm
	PCB板厚度 PCB board thickness	PCB厚度：0.8~3 mm / 引脚长度：3mm 以内 PCB thickness：0.8~3 mm / Pin length：＜3mm		
	元件高度 Component height	PCB上面100mm以下 / 下面50mm以下 PCB top ＜100mm / Bottom ＜50mm		
	单板条件 Board conditions	PCB工艺边3mm以上，弯曲度0.5 mm以下 PCB Process edge ＞ 3mm，curvature ＜0.5 mm		
	承重 Loaded weight	含元器件的重量为5KG以下 The weight including electronic components is below 5KG		
锡炉 Solder pot	材质 Material	T1钛合金材料 T1 Titanium alloy material		
	容量 Capacity	装锡 15KG Tin loading 15KG		
	功率 Power	1.8 KW (6根发热管) 1.8 KW (6 heating tubes)		
	控温方式/精度 Temperature control method/accuracy	PID+SSR 控温/精度 ±2度 PID+SSR Temperature control /Accuracy ±2℃		
PCB板预热 PCB board preheating	顶部 Top	1.5 KW(选配) (optional)	2 KW(选配) (optional)	1.5 KW(选配) (optional)
	底部 Bottom	1 KW		
氮气 Nitrogen	氮气纯度 Nitrogen purity	含氮量大于99.999% Nitrogen content ＞99.999%		
	压力/消耗量 Pressure/Consumption	0.5MPa / 1.2 M³/H		
助焊剂 Soldering flux	喷嘴 Spray nozzle	0.5mm日本原装进口精密流体喷嘴 0.5mm precision fluid nozzle imported from Japan with original package		
	储罐容量 Capacity of can	0.6 L		
气源 Gas source	压力/流量 Pressure/Flow	0.5-0.7Mpa / 0.5M³/H		
波峰高度 Peak wave height	检测方式 Detecting method	自动检测补偿高度 Automatically detect compensation height		
焊接喷嘴 Soldering nozzle	喷嘴型号 Type of nozzle	φ 3mm～φ 20mm 可定制异型尺寸 φ 3mm～φ 20mm Irregular size is customizable		
	安装方式 Installation method	磁吸式、快速更换 Magnetic suction, quick replacement		
系统 System	电脑系统 Computer system	Windows系统 Windows system		
	设备控制 Equipment control	工控机PC + 西门子PLC IPC PC + Siemens PLC		
设备软件 Equipment software	编程 Programming	自研软件、支持导入图片编程直观方便快捷 Self-developed software that supports importing images for intuitive, convenient, and fast programming		
	数据上传 Data uploading	可支持对接MES系统，焊接数据可追溯 Support docking with MES system, and soldering data is traceable		
焊接可视 Visible soldering	视频监控 Video monitoring	实时视频监控焊接效果 Real time video monitoring of soldering effect		
电源 Power	电压 Pressure	220VAC±10% 50-60Hz		
	总功率 Total power	3.5KW		
设备 Equipment	重量 Weight	约100KG Approx.100KG	约120KG Approx.120KG	约160KG Approx.160KG
设备尺寸 Equipment dimension	尺寸 Dimension	750×820×1350 mm	750×950×1350 mm	880×1280×1350 mm
	上罩子(选配) Top cover(optional)	1000×850×1580 mm	1000×980×1580 mm	1270×1280×1580 mm

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SINGRAIN 新锐自动化
二十载焊接经验
Twenty years of soldering experience



小型台式 选择性波峰焊

Mini desktop selective wave soldering equipment

低成本 low cost

高效率 high efficiency

高稳定性 high stability

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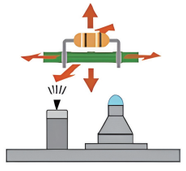


小型台式选择性波峰焊集成预热、喷雾、焊接一体化设计，是一款低成本、高效率、高稳定性的DIP焊接设备，在焊接过程中具有针对性强、减少浪费、提高品质、降低成本、降低人员依赖性等优势。

能有效帮助企业解决DIP焊接问题，提高生产效率和产品品质，增强企业的竞争力。

The Mini desktop selective wave soldering Integrates with the design of preheating, spraying and soldering, it is a type of DIP soldering equipment with low-cost, high efficiency and high stability, and it has the advantages of strong targeting, waste-reducing, quality-improving, cost-reducing, personnel dependence and other advantages.

It can effectively help enterprises solve DIP soldering problems, improve production efficiency and product quality, and enhance their competitiveness.

产品优势 Product advantages



省助焊剂90%

Save 90% soldering flux



省锡省电 90%

Save 90% soldering tin & electricity



透锡率 100%

Solderability 100%



锡渣 0.1KG/8H

Tin slag 0.1KG/8H



减少治具成本

Reduce cost of fixture



前期投入少

Low investment in earlier stage



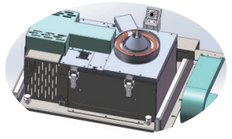
维护成本低

Low cost of maintenance



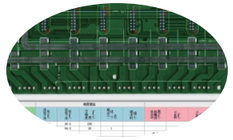
提升焊接品质

Enhance soldering quality



软硬件自研

Self-research on hardware & software



编程简单快捷

Simple & fast programming



设备操作简单

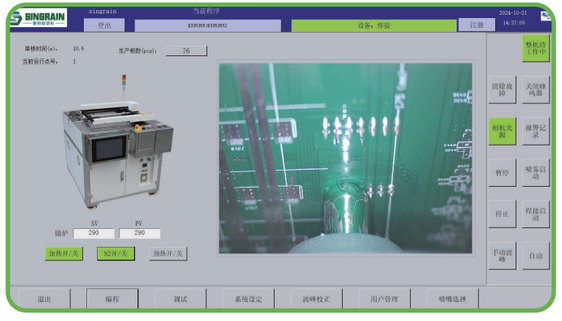
Simple operation of equipment



占地面积小

Small area occupation

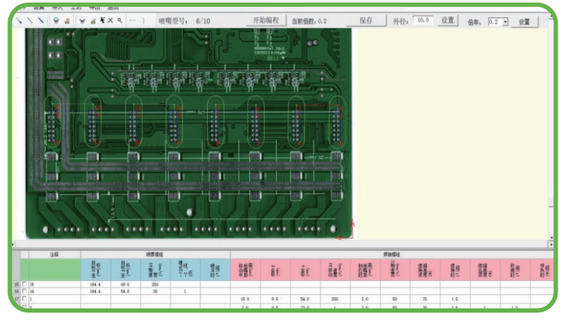
操作界面 Operation interface



SW 软件自主研发，基于Windows系统开发，可连接MES上传数据，实现焊接数据可追溯。

SW software is independently developed and based on the Windows system. It can connect to MES to upload data and achieve traceability of soldering data.

编程软件 Programming Software



可导入PCB板图片，实现可视化编程方便快捷。开放式编程方式，可灵活设定焊点参数，满足不同元件焊接。

Images of PCB board can be imported to achieve convenient and fast visual programming Open programming allows for flexible setting of parameters for solder joints to meet the soldering requirements of different components.



波峰高度检测

不同型号喷嘴自动标定设定高度，方便焊接设定参数

Height detection of wave peak

Nozzles of different models automatically calibrate setting heights, which is convenient for setting parameters of soldering



红外预热

高效热能传导，满足快速预热（顶部预热可选配）

Infrared preheating

Efficient heat conduction to meet rapid preheating requirements
(Top preheating is optional)



氮气流量监测

实时监测氮气流量，保证焊接质量

Monitoring of nitrogen flow

Real time monitoring of nitrogen flow to ensure soldering quality

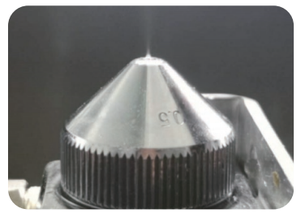


助焊剂罐

304不锈钢耐腐蚀、恒压供液稳定，监测液位自动补充

Solder flux can

304 stainless steel is corrosion-resistant and has stable liquid supply under constant pressure

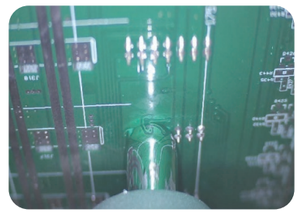


助焊剂喷嘴

（可点喷、线喷、全喷，不易堵、寿命长）

Solder flux nozzle

(It can be sprayed with dots, lines, or full spray and can't be easily blocked, and it has a long service life)



焊接视频

高清摄像头实时观察焊接效果

Soldering video

High definition camera can observe the soldering effect in a real time.

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