



SUNEAST
日 东 科 技

垂直固化炉

Vertical Curing Oven



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www.suneast.com.cn

公司简介

Company profile

日东科技1984年成立于香港, 1999年在深圳建立工业园, 2000年在香港上市 (股票代码0365.HK), 为芯成科技控股旗下核心企业。

日东科技配备了现代化的产业园和先进的研发实验设施, 具有雄厚的研发、设计、生产、自动化、信息化装备制造的系统集成能力, 销售网络遍布全球。与清华大学、香港中文大学、香港科技大学、哈尔滨工业大学达成技术战略合作研发实力达到国内外先进水平。

在粤港澳大湾区的核心地带, 日东科技已服务半导体后端应用客户超过四十年, 公司的下游及终端客户包括华为、中兴、TCL、富士康、木林森、光弘、德赛、聚飞等。公司自主研发的回流焊、波峰焊、选择性波峰焊、垂直炉、印刷机等产品在行业内始终保持技术领先地位, 为国内外众多知名企业提供了专业的电子装备解决方案。“龙门双驱同步跟随直线电机”已成功应用到多个高速、高精度的装备制造和加工领域, 得到用户的广泛赞誉。新推出IC贴合机等半导体封装设备, 是日东科技的又一匠心力作, 助力国产芯片产业发展壮大。如今, 日东科技已成为中国智能装备行业的领导者。

作为芯成科技控股的核心企业, 日东科技将坚定集团的战略目标, 打造成为高科技领域的世界级一流企业。

Founded in Hong Kong in 1984, Suneast technology established its industrial park in Shenzhen in 1999 and listed on the main board of Hong Kong stock exchange in 2000 (Stock Code: 0365. HK), which is the core enterprise under Sino ICT Holdings Limited.

With modern industrial parks and advanced R&D facilities, Suneast technology has strong system integration capabilities in R&D, design, production, automation and information equipment manufacturing. Its sales network is all over the world. Suneast technology has been achieved technical strategic cooperation with Tsinghua University, Chinese University of Hong Kong, Hong Kong University of Science and Technology and Harbin Institute of Technology, and its R&D capabilities has reached the advanced level at home and abroad.

In the core area of Guangdong-Hong Kong-Macao Greater Bay Area, Suneast technology has served semiconductor back-end application customers for more than 40 years, its downstream and end customers include Huawei, ZTE, TCL, Hikvision, MLS LIGHTING, DBG, DESAYSV AUTOMOTIVE, SHENZHEN MTC, JFLED, etc.

The independent R&D products, like reflow oven, wave soldering machine, selective soldering machine, vertical oven, printer and etc has always maintained a leading position in technology, and provided professional electronic equipment solutions for many well-known enterprises at home and abroad. The dual drive gantry synchronous follow linear motor technology has been successfully applied to a number of high-speed and high-precision equipment manufacturing and processing fields, and gains great praise by users. The new semiconductor packaging equipment, like chip bonder is the masterpiece of Suneast technology, which helps the development of domestic chip industry. Today, Suneast technology has become the leader of China's intelligent equipment industry.

As the core enterprise of Sino ICT Holdings, Suneast technology will strengthen the strategic goal of the group and become a world-class enterprise in the field of high technology.

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垂直固化炉SVR系列

Vertical Curing Oven SVR SERIE

在线式垂直固化烤炉, 结构紧凑, 占地面积小, 最大限度的节省了厂房空间; 生产效率高, 远远高于传统的固化烤炉, 特别是对于要求在炉内烘烤时间长的产品, 可有效的提升产能, 目前市场上对垂直固化炉的需求越来越大, 替代传统的固化烤炉方式, 已成为一种趋势。

On-line vertical curing oven, compact structure, small footprint, maximum saving workshop space; High production efficiency, much higher than the traditional curing oven, especially for products requiring long curing time in the oven, which can effectively improve production capacity, the market demand for vertical curing oven is increasing, it will replace the traditional curing oven and become a trend.

设备优势 Advantages



- 可有效提升产能
Effectively improve the capacity
- 可提高固化品质
Enhance the curing quality
- 可降低使用成本
Lower the use-cost
- 占地面积小, 可节省空间
Small occupying area and save

参数列表

Specification

SVR系列参数SVR SERIES Specification				
设备型号 Model	SVR-200	SVR-300	SVR-400	备注 Remarks
技术参数 Specs				
设备尺寸 Machine Dimension	L2140xW1800xH2150mm	L2390xW1870xH2150mm	L2870xW2010xH2150mm	
设备重量 Machine Weight	Approx.1600kg	Approx.1800kg	Approx.2000kg	
产品尺寸 Product size	MAX:W250*L320mm	MAX:W320*L410mm	MAX:W460*L530mm	
入板高度 Inlet height	900±20mm			
存料方式 Storage type	垂直仓储式 Vertical storage			
储板数量 Storage quantity	最大存板数量: 60pcs Max product storage number:60pcs			可根据需求定制 Can be customized.
节距高度 Pitch height	25.4mm的整数倍 Integral multiple of 25.4mm			可根据需求定制 Can be customized.
温度设定范围 Temperature range	室温 ~ 200°C Room temp ~ 200°C			
升温时间 Warming up time	约15min Approx.15min			Set temp 150°C 设置温度150°C
运行功率 Running power	约6KW			
总功率 Total power	45KW			
温度控制精度 Temperature control accuracy	±1°C			
异常报警 Abnormal alarm	三色信号灯+人机界面提示 Tricolor signal lamp + Human-machine interface prompt			
电源要求 Power supply	3P5L 380V 50/60Hz			



双升降系统, 储板数量多, 可满足高效率的生产要求
Double lifting system, great quantity of storage space, can meet the high efficiency production requirements



接驳推板机构采用高精度步进马达, 推板准确度高
Adopts high accuracy step motor for buffer and push structure, ensure the pushing accuracy



炉膛内走板检测, 采用进口光纤传感器, 最大限度保证运行可靠性
PCB conveying detection in the oven adopts imported fiber optic sensor which greatly ensure the operation reliability

垂直固化炉SVR-V系列

Vertical Curing Oven SVR-V SERIE

SVR-V系列在线式垂直固化炉，整机设计全新升级，更加人性化。采用分段加热、独立温控，加热更高效，控温更精准。运输系统稳定可靠，操作维护便捷。全自动进出产品，智能化生产，生产效率高。设备体积小，有效缩短产线长度。SVR-V系列垂直固化炉对于长板的固化应用优势更加明显，可容纳长达1200mm的产品。可定制百级、千级、万级高洁净度设备，满足无尘生产工艺要求。

SVR-V series on-line vertical oven, newly upgraded design, more humanized. With segmented heating and independent temperature control, the heating is more efficient and temperature control is more accurate. The transportation system is stable and reliable, and the operation and maintenance are convenient, automatic loading and unloading, intelligent production, high production efficiency. Small size, which effectively shorten the length of production line. The vertical oven SVR-V series are even more advantageous for the curing applications of long boards, up to 1200mm. Hundreds, thousand, and ten thousand cleanliness equipment to meet the requirements of clean production process.

设备优势 Advantages

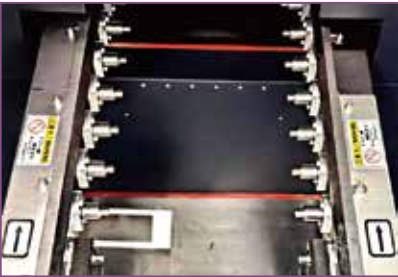


- ✓ 长板固化优选方案
Optimal solution for longboard curing
- ✓ 开放式布局，简洁，易维护
Open layout, simple, easy to maintain
- ✓ 存板数量可设定，使用更加灵活
The storage quantity can be set, flexible operation
- ✓ 更小的场地，更低的能耗
Smaller space, lower energy consumption

参数列表

Specification

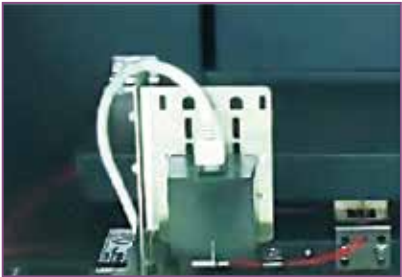
SVR-V系列参数Specification				
设备型号 Model	SVR-200-V	SVR-300-V	SVR-400-V	备注 Remarks
技术参数 Specs				
设备尺寸 Machine Dimension	L1486xW1830xH2100mm	L1736xW1930xH2150mm	L2036xW2030xH2150mm	
设备重量 Machine Weight	Approx.1300kg	Approx.1600kg	Approx.1800kg	
产品尺寸 Product size	MIN:W50*L200mm			
	MAX:W250*L520mm	MAX:W350*L900mm	MAX:W450*L1200mm	
入板高度 Inlet height	900±30mm			
存料方式 Storage type	垂直仓储式 Vertical storage			
储板数量 Storage quantity	24pcs			可根据需求定制 Can be customized.
层间距 Layers spacing	24mm			可根据需求定制 Can be customized.
固化时间 Curing time	≥1min Curing time can be set.时间可设定			
加热模块 Heating module	4 加热模块 4 Heating modules	8加热模块 8 Heating modules	8加热模块 8 Heating modules	各模块独立控温 Each module controls temperature independently
温度设定范围 Temperature range	室温Room temp ~ 200°C			
升温时间 Warming up time	约Approx. 15min			设置温度150°C Set temp 150°C
运行功率 Running power	Approx.4KW	Approx.5KW	Approx.6KW	
温度控制精度 Temperature control accuracy	±1°C			
炉温偏差 Temperature deviation	≤±2°C			
异常报警 Abnormal alarm	三色信号灯+人机界面提示 Tricolor signal lamp + Human-machine interface prompt			
电源要求 Power supply	3P5L 380V 50/60Hz			



滚轮式传输方式，无轨道磨损缺陷，无需滴油润滑，可降低使用及维护成本
Roller type conveying mode, no rails wear risk, no need oil lubrication, reduce the use and maintenance costs



升降系统标配伺服电机驱动，运行平稳，定位更加精准，有效提升设备稳定性
Lifting system with standard servo motor driving, smooth operation, more accurate positioning, effectively improve the stability



出入口扫码枪，产品信息可追溯，助力智慧工厂建设（选配）
With barcode reader, product information can be traced to support smart factory construction. (option)

应用范围

Application

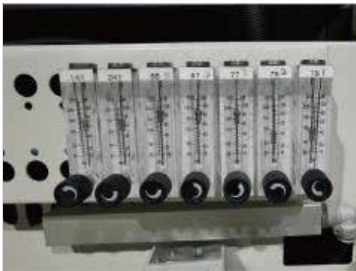
主要应用于：芯片粘接、底部填充、元件封装等需热固化的生产环节。
(含LED、FPC、汽车电子、3C电子、电机、仪表、通讯等行业)
SVR-V系列尤其适合长板的固化，如LED灯条、FPC柔性线路板等。

Main application: Chip bonding, under fill, components packing and other production process which needs thermo curing. (Include LED, FPC, automobile, 3C Electronic product, motor, instrument, communication and other industries)
SVR-V series Especially suitable for long board curing, such as LED strips, FPC, etc.



垂直炉配置可选项

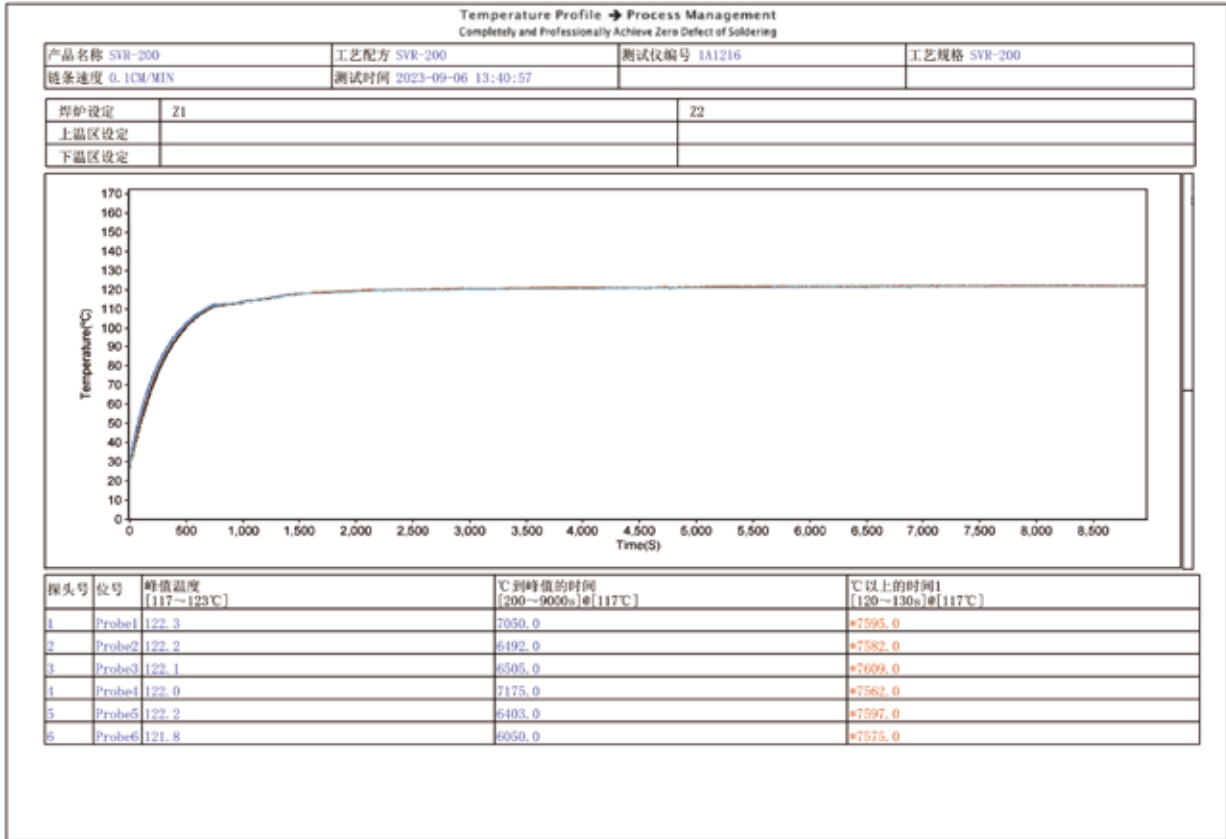
Options

冷却方案	Cooling unit		水冷接驳台，冷却效率高 Cooling docking conveyor, high cooling efficiency
1. 炉后配置冷却接驳台 (快速冷却可选水冷式) ; 2. 炉后配置冷却缓存机, 存板数量多; 1. Equipped with a cooling docking conveyor after the oven (option: water chiller for quick cooling); 2. Equipped with a cooling stocker after the oven, large storage quantity.			
氮气系统	Nitrogen system		氮气流量调节 Nitrogen regulating flowmeter
配置氮气调节流量计, 氧气分析仪 Equip with Nitrogen regulating flowmeter and the oxygen analyzer			
加热系统	Heating system		8加热模组 8 heating modules
加热模组可选4模组, 8模组, 12模组 Available for 4 modules, 8 modules, 12 modules			
运输系统	Conveyor system		存板间距依据需求可定制 The spacing between boards can be customized
存板数量、存板间距依工艺需求可定制 The storage quantity and the spacing between boards can be customized according to the production process.			
机架部分	Rack		底部可预留工装返板线空间 Space can be reserved for the bottom fixture return line
可预留底部夹具返板线安装空间 Space can be reserved for the bottom fixture return line.			

温度曲线展示

Temperature profile

- 1.垂直炉温度曲线由升温阶段和恒温阶段构成；
- 2.测试标本治具:L260mm*W200mm*H20mm, 温度均匀性偏差≤1℃。
 - a. The temperature profile of vertical oven is composed of heating stage and constant temperature stage.
 - b. Test fixture: L260mm*W200mm*H20mm, temperature uniformity deviation ≤1℃.



升温速度可根据实际需求调整
Adjust the warming up speed according to your need

客户案例展示

Customer project presentation



垂直固化炉LED客户应用案例
Vertical curing oven for LED application



垂直固化炉FPC柔性线路板客户应用案例
Vertical curing oven for FPC application