



HVO 高精度垂直固化炉

更精密 更平稳 更可靠

HVO HIGH PRECISION VERTICAL CURING OVEN

More precise, Stable, and Reliable



产品介绍 PRODUCT INTRODUCTION

- 浩宝是国内第一家自主研发垂直固化炉的公司，HVO系列固化炉是浩宝公司针对高要求，高精度的高端设备打造的高效精密垂直固化炉，具有结构先进，占地少，运输平稳精准，固化品质高等特点。设备可对接MES系统，实现工业互联网4.0管理。
- 应用范围：广泛运用于摄像头、手机、平板、Mini LED、PCB/FPC等领域的点胶、涂覆后的烘干固化或老化。
- HB is the first company in China to independently develop a vertical curing furnace. The HVO series curing furnace is an efficient and precise vertical curing furnace designed by HB for high-end equipment with high requirements and precision. It has the characteristics of advanced structure, small footprint, smooth and accurate transportation, and high curing quality. The device can interface with the MES system to achieve industrial Internet 4.0 management.
- Application scope: Widely used for dispensing, drying, curing, or aging in fields such as cameras, mobile phones, tablets, Mini LEDs, PCB/FPC, etc.

核心技术及优势 CORE TECHNOLOGY AND ADVANTAGES

■ 不磨损, 更适合高端产品

High precision structure, more suitable for high-end products

- 更精密的浩宝全新传输系统，产品在传输、加热过程中无摩擦，大幅度减少生产时对产品的摩擦损伤，满足高端产品的高品质高良率生产需求。
- The more precise HB brand new transmission system ensures that the product has no friction during transmission and heating, greatly reducing friction damage to the product during production, meeting the high quality and yield production needs of high-end products.



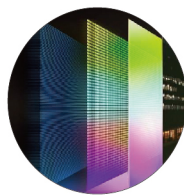
摄像头
Camera



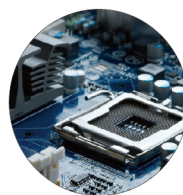
手机
mobile phone



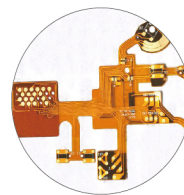
平板
tablet PC



Mini Led



PCB

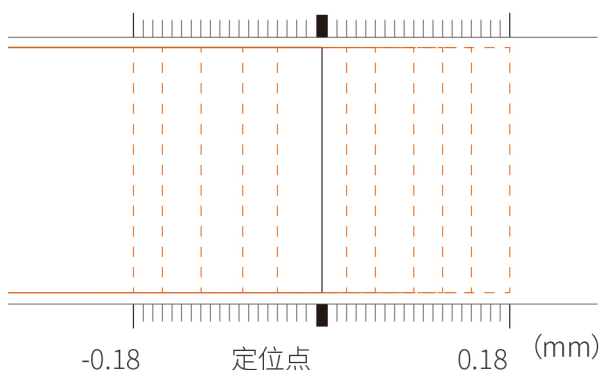


FPC

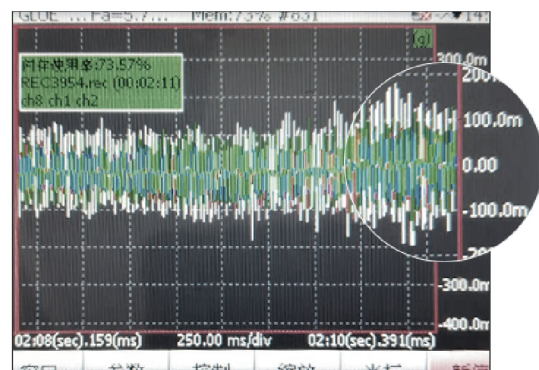
■ 定位精准, 运输平稳

Precise positioning, stable transportation

- 采用浩宝智能定位技术，定位精度高达 $\pm 0.18\text{mm}$ ；采用新型滚针传动，传输时震动幅度降至 $\pm 100\mu\text{m}$ 以内，升降夹紧精度可达 $\pm 18\text{mm}$ ，满足高端产品的精密生产需求。
- Using intelligent positioning technology, the positioning accuracy is as high as $\pm 0.18\text{mm}$. Using the new needle drive, transmission vibration amplitude is reduced to within $\pm 100\mu\text{m}$. The accuracy of lift and clamping can reach $\pm 18\text{mm}$ to meet the precision production needs of high end products.



传动定位精准
Accurate transmission positioning

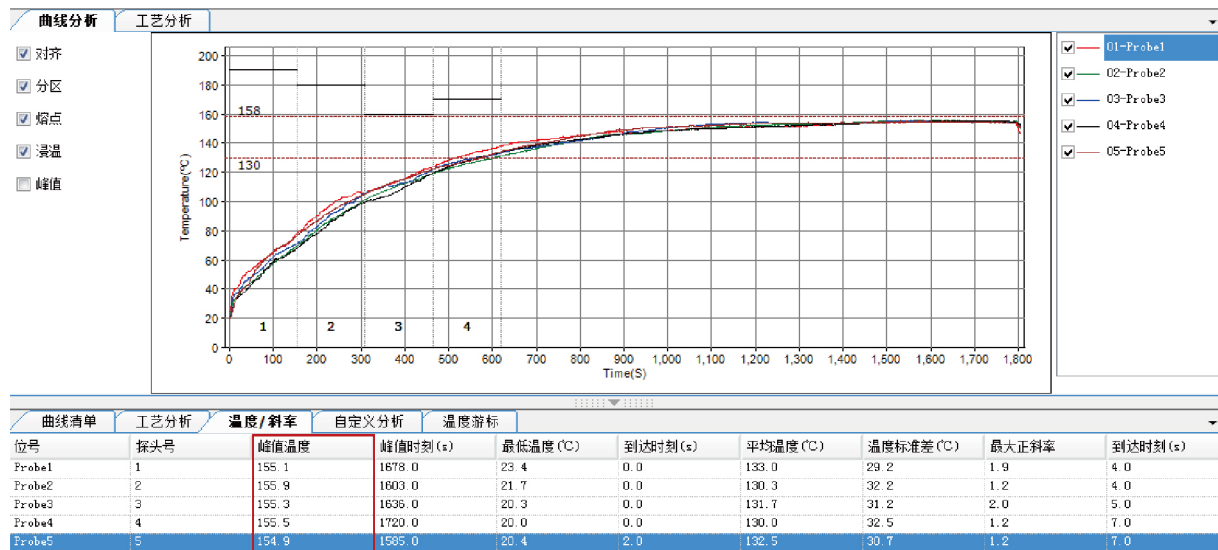


传输平稳震动低
Smooth transmission with low vibration

■ 控温精准, 固化品质高

Temperature control precision, improved the curing quality results

- 浩宝先进控温技术控温精度高达 $\pm 1^{\circ}\text{C}$ 。炉内温度均匀性好, 固化品质高, 品质稳定。
- Temperature control accuracy at $\pm 1^{\circ}\text{C}$. Perfect temperature uniform in the oven. Good results for curing quality to make products quality.

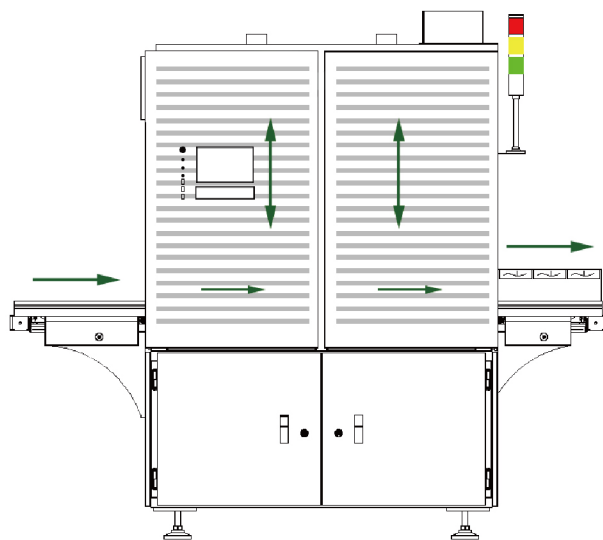


温度测试图
Temperature test profile

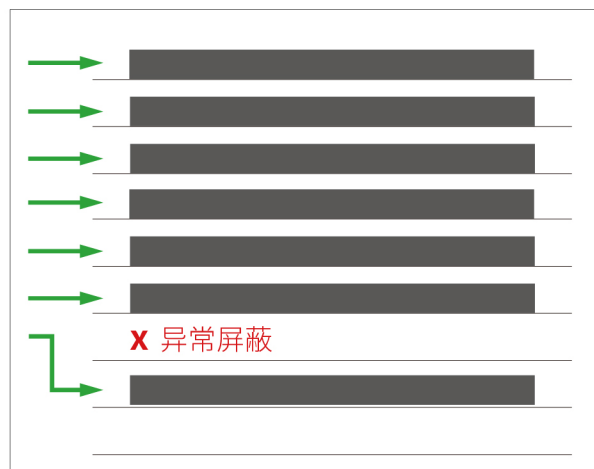
■ 更出色, 更稳定, 更智能

Better Stable Smarter

- 将老款139个零件优化至更先进的50个, 结构更简洁, 不易出故障, 先进的零件性能更出色, 稳定性更强。
- 采用浩宝智能控制系统, 可屏蔽异常层 (屏蔽后, 异常层不再进板)。
- Optimize the 139 parts of the standard models to 50 more advanced. The structure is more concise, it is not easy to fail, and parts are better and stable.
- Intelligent Control System, it can shield the abnormal layer (after blocking, the abnormal layer will no longer enter the board)



设备结构示意图
Equipment structure diagram



屏蔽后, 进板自动跳过异常层
After shielding, the inlet board automatically skip the abnormal layer

参数规格 PARAMETER SPECIFICATION

浩宝HVO高精密垂直固化炉 HVO High Precision Vertical Curing Oven

系统 System	项目 Item	HVO-250	HVO-250D	HVO-400	HVO-600
机身 Body	最大外形尺寸(mm) Max. Demension (mm)	L1460*W2030*H2270	L1660*W2280*H2270	L1850*W2230*H2270	L2200*W2430*H2270
	设备重量 Weight	≤2500kg	≤2500kg	≤2500kg	≤2500kg
	整机功率 Total power	54KW	78KW	54KW	78KW
	运行功率 Operating power	约21KW About 21KW	约31KW About 31KW	约21KW About 21KW	约31KW About 31KW
	控制方式 control mode	PLC+PC			
	电源 power supply	3P 5W 380V(AC)			
板处理 Board Handling	过板尺寸(mm) Max. PCB size (mm)	L50~300*W50~250	L50~300*W50~250	L50~400*W50~400	L50~600*W50~600
	产品单重 Products Weight	≤5KG	≤5KG	≤8KG	≤10KG
	产品高度 Space height for products	≤8mm			
	工艺边尺寸 Process side	5mm	4mm	5mm	5mm
	总层数 Total layers No.	40	60	40	60
	单层产品容量 Capacity per layer	1	2	1	1
	最大产品容量 Maximum product capacity	40	120	40	60
	层间距 (mm) Layer spacing (mm)	26	20	26	20
	层间有效高度 (mm) Effective height between layers (mm)	18	16	18	16
	入板高度 Coveyor Height	900±30mm			
	工作节拍 Cycle time	≥15s			
	前后接驳 In / Out Feed Conveyor	无接驳 Not Available			
	轨道数 Number of conveyor	1	2	1	1
	轨道调节方式 Conveyor Rail Width Adjust	自动 Auto.			
加热系统 Heater System	温度设置 Set Temperature	≤200℃			
	发热丝功率 Heating Power	48KW	72KW	48KW	72KW
	控温精度 Temperature Control precision	±1℃			
	板温均匀度 PCB Temperature Difference	±5℃			
冷却系统 Cooling System	冷却模式 Cooling Mode	可选配 Option			
氮气系统 N ₂ System	氮气配置 N ₂ configuration	无 Be without			
洁净系统 Clean System	洁净要求 Clean Class	可选配 (具备万级, 十万级) Option(level 10000, 100000)			
气体检测 Gas Detection	危险气体检测 Hazardous Gas Detection	可选配 Option			

注：参数若有更改，恕不另行通知！The above contents are subject to change without further notice!



浩宝微信公众号



浩宝微信视频号

深圳市浩宝技术有限公司
SHENZHEN HB TECHNOLOGY CO.,LTD.

地址：深圳市宝安区松岗街道田洋六路1号浩宝工业园

电话：400-063-8899 传真：0755-27271140

网址：www.szhaobao.com

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