

HIGH SPEED ROBOTIC STRING LAYUP

高速机器人摆串机

功能描述

- 串焊机端电池串输出适用单轨和双轨，双轨对接。
- 电池串定位方式：视觉定位。
- 主体框架结构为钢结构，牢固、可靠。
- 机器人速度快，定位精度高、稳定、可靠。
- 真空吸盘吸取电池串不留痕迹。
- 设备全自动控制，运行过程无需人员干预。
- 电池串吸附夹具具有真空检测功能，能有效避免电池片在抓取过程中掉落。
- 更换不同电池串可直接调用，必要时可部分调整。
- 支持上离线返修串。
- 满足横向版型、竖向版型及AB串版型组件。

Features

- The cell string output of the stringer can be applied to single-rail and double-rail.
- String positioning method: visual positioning.
- The main frame structure is steel, firm and reliable.
- The robot has fast speed, high positioning accuracy, stability and reliability.
- The vacuum suction cup sucks cell string without leaving traces.
- Fully automatic equipment control, no human intervention is needed during the operation.
- The cell string adsorption fixture has a vacuum detection function to prevent string falling.
- Replace the different cell strings directly, some adjustments needed if necessary.
- Support online and offline rework of strings.
- Fit for horizontal, vertical and AB string module.



设备技术性能

节拍: 半片 \leq 3.5s/串(玻璃进出料归正时间5s)
 摆串精度: 串间距 \pm 0.4mm;
 电池串到玻璃长短边距离 \pm 1mm
 兼容电池片规格: 60片/72片/半片/MBB/MBB半片
 稼动率: \geq 98%
 常规、半片、MBB碎片率: $<$ 0.02%
 视觉: 双影像系统, 分辨率0.05
 噪音: \leq 72dB



Functionality

Cycle time: half cell \leq 3.5s/pcs
 Accuracy: string spacing \pm 0.4mm;
 distance between string to the glass edge \pm 1mm
 Compatible size: 60/72/half-cell/MBB/MBB half-cell
 Rate: \geq 98%
 Fragment rate: $<$ 0.02%
 Vision: dual image system, resolution of 0.05
 Noise: \leq 72dB



技术参数 Specifications

项目 Item	数值 Value
型号 Model	SC-SL54-RX-01
适用版型 Compatible module size	长length:1650-2550(mm); 宽 width: 990-1450(mm)
节拍 Cycle time	半片 half cell:3.5s/pcs (infeed, outfeed and alignment, 5s)
功率 Power	6kW
电源 Power requirement	AC380V \pm 5%, 3P+1N+1PE, 20A, 50/60Hz
工作气压 Air pressure	0.6-0.8(MPa)
耗气量 Air consumption	400L/min
设备重量 Weight	约3700kg
外形尺寸 Dimension(L \times W \times H)	3750*3750*2500(mm)