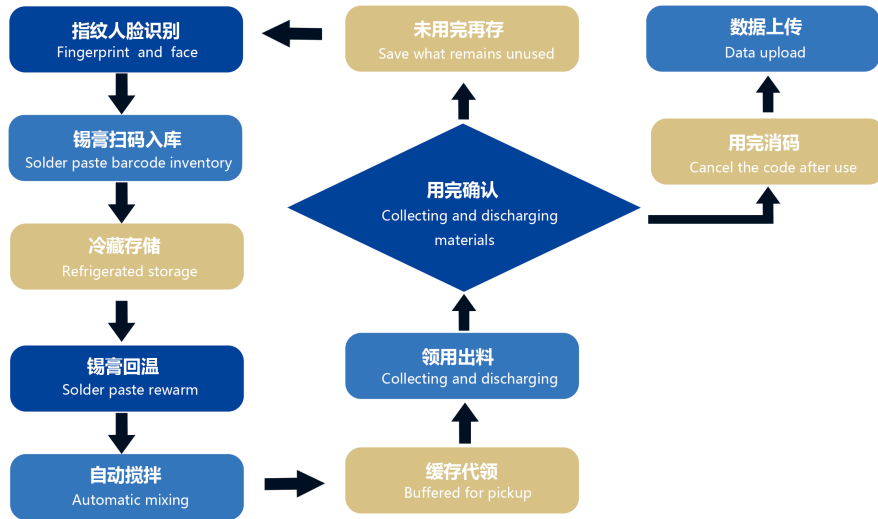


使用价值分析 Value-in-Use Analysis

- 减少人为管理，降低人为因素不可控风险
Reduce human management and lower the uncontrollable risks associated with human factors.
- 提前预约，缩减等待
Make an appointment ahead of time to reduce waiting time.
- 与MES、ERP等系统对接，提升管理效率
Integrate with MES, ERP, and other systems to enhance management efficiency
- 智能管理，减少呆滞浪费
Intelligent management to reduce idle waste
- 7X24小时无人值守
7x24 hours unmanned operation
- 生成报表，产品可追溯，助力生产决策
Generate reports, enable product traceability and facilitate production decision-making

工作流程 Value-in-Use Analysis



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锡膏智能管理柜解决方案

Solution for solder paste intelligent management cabinet

柜内产品365天*24小时监控，低库存预警、温度异常报警
The products inside the cabinet are monitored 24 hours a day, 365 days a year, with low inventory alerts and temperature abnormality alarms.

支持MES和ERP等系统对接互联,可导报表
Supports system integration and interconnection with MES, ERP, etc., and can export reports.

一体化设计，人脸识别/指纹登录系统，自动扫码
入库称重、冷藏、回温、搅拌、出库、贴标，减少人为管理不可控因素风险
Integrated design, face recognition/fingerprint login system, automatic scanning for warehousing, weighing, refrigeration, temperature restoration, mixing, outbound processing, labeling, reducing the risks of uncontrollable factors from human management.



每瓶锡膏信息全程可追溯，设备LOG日志可监控查询
The information of each bottle of solder paste is fully traceable, and the device LOG can be monitored and queried.

0-10℃冷藏，不限制锡膏种类
0-10°C refrigeration, without limiting the type of solder paste.

按入库时间或者SN序列号先进先出，时域内生产日期管控优先，回存优先
"First in, first out" based on either storage time or SN serial number with priority given to production date control within the time domain, and priority for re-storage.

设备参数 Equipment parameters

分类 Classification	设备型号 Model	TS-1000	TS-3000	TS-6000	TS-5000
存放 Store	存放类型 storage type	罐装锡膏 solder paste in cans			罐装锡膏+红胶 canned solder paste+red glue
冷藏 Cold storage	冷藏最大数量 Maximum quantity for cold storage	100瓶 100 bottles	300瓶 300 bottles	600瓶 600 bottles	锡膏345瓶+红胶50瓶 345 bottles of solder paste+50 bottles of red glue
	冷藏温度 Cold storage temperature	0℃-10℃			
回温 Rewarm	回温最大数量 Maximum quantity for temperature recovery	20瓶 20 bottles	72瓶 72 bottles	104瓶 104 bottles	锡膏54瓶+红胶25瓶 54 bottles of solder paste+25 bottles of red glue
	回温温度 Return temperature	18℃-28℃			
搅拌 Mixing	搅拌数量 Mixing quantity	1瓶或2瓶 1 or 2 bottles			
	搅拌速度 Mixing speed	1-1000转/分钟 1-1000 revolutions per minute			
	搅拌时间 Mixing time	0.1-99 h (可按需设置) 0.1-99 h Can be set as needed			
	搅拌方式 Mixing method	公转加自转产生离心力 The combination of orbital revolution and self-rotation generates centrifugal force			
	取用规则 Usage rules	先进先出/二次入库优先 First In, First Out (FIFO)/ Priority for Second Input			
出入料 Inlet and outlet	条码类型 Barcode type	一维/二维码 One dimensional/two-dimensional code			
	扫码方式 Scanning method	自动读码 Automatic code reading			
	特色功能 Special functions	贴标、人脸/指纹登录、用户管理 Labeling、Face/Fingerprint Login、User Management			
其它 Other	控制方式 Control mode	工控PC+运动控制卡 Industrial PC + Motion Control Card			
	设备尺寸 Equipment size	1330*1200*1900mm	1570**1420*1900mm	2070*1500*1900mm	1575**1420*1900mm
	设备重量 Equipment weight	600KG	600KG	700KG	600KG
	设备电源 Equipment power supply	AC220±10% 50/60HZ 2.0KW	AC220±10% 50/60HZ 2.0KW	AC220±10% 50/60HZ 3.0KW	AC220±10% 50/60HZ 3.0KW

设备优势

Equipment Advantages

先进先出First In, First Out (FIFO)
单瓶连续式投料设计,绝对先进先出,可按投料时间或SN序列号排序。
The single-bottle continuous feeding design ensures absolute First-In-First-Out (FIFO) principle. It allows sorting by feeding time or SN serial number.

可视化Visualization
内置监控系统，实时监控设备运行情况,实现可追溯性。
Equipped with an built-in monitoring system for real-timesurveillance of equipment operation, enabling traceability.

温度均匀性Temperature
大容量冷藏分层上下通孔设计，确保冷气最小化流失，温度更均匀,实时温度数显及曲线显示
Large capacity refrigeration with layered upper and lower through-hole design ensures minimal loss of cold air, more uniform temperature, real-time temperature display and curve display

权限管理Rights Management
用户权限管理体系，实现所有功能权限按用户分配，一次登录，即可使用,避免多个功能需要多次登录的繁琐操作，超大用户容量，用户数量不限
The user permission management system enables all functional permissions to be assigned to users, allowing for easy access with a single login, avoiding the tedious process of multiple logins for multiple functions. With a large user capacity, there is no limit to the number of users.

换线接料模式Material Changeover Mode
产线新上线或换线后，产品信息与线体绑定，即进入接料模式。锡膏耗尽时,扫码旧产品，系统精准分配新产品至该产线。此体系实现了产线、人员、消码 替换的全流程智能化闭环管控，显著提升生产运营效率与精准度
After a new production line is launched or an existing line is changed, the product information is bound to the line and immediately enters the material connection mode. When the solder paste is depleted, the old product is scanned, and the system accurately assigns a new product to that line. This system achieves intelligent closed-loop control throughout the entire process, including production lines, personnel, code cancellation, and replacement, significantly enhancing the efficiency and precision of production operations.

稳定性Stability
采用总线型网络控制系统，标准化协议确保高效通信。模块化电控细分功能，独立低耦合，便于维护扩展。全闭环伺服系统，确保高精度运行。关键信息实时预保存，突发断电无惧数据丢失风险，通电即恢复，提升生产连续性与可靠性，整体稳定易维护。
Adopting a bus-type network control system with standardized protocols ensures efficient communication. The modular electronic control system features finely divided functions, low coupling, and ease of maintenance and expansion. The fully closed-loop servo system ensures high-precision operation. Critical information is pre-saved in real-time, eliminating the risk of data loss in case of sudden power outages. Upon power restoration, the system resumes operation, enhancing production continuity and reliability. Overall, it is stable and easy to maintain.