

WENJIN®

稳进智能装备

WENJIN INTELLIGENT EQUIPMENT

新能源锂电池组装设备与技术服务商

New energy lithium battery assembly equipment and service supplier



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- 深圳市稳进智能装备有限公司
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- 深圳市稳进自动化设备有限公司
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WENJIN INTELLIGENT EQUIPMENT



深圳市稳进智能装备有限公司

Shenzhen Wenjin Intelligent Equipment Co., LTD

专业品质
诚信天下



公司成立于
2013年

11年行业经验 品质放心
11 YEARS OF EXPERIENCE IN THE INDUSTRY QUALITY ASSURED

客户成交
100+

生产经验丰富 效率高
EXPERIENCED PRODUCTION AND HIGH EFFICIENCY

厂房面积
3000m²

大型实地生产厂房
LARGE FIELD PRODUCTION PLANT

年生产总量
260+台

量高稳定 交期准时
HIGH AND STABLE QUANTITY, ON TIME DELIVERY

公司简介 Company Profile

深圳市稳进智能装备有限公司总部位于深圳，是一家集研发、制造、销售与技术服务于一体的国家高新企业，稳进智能装备一直以来深耕新能源锂电池组装设备以及非标自动化定制领域。

目前主要产品分为三大类，圆柱电芯系列设备，方形铝壳电芯系列设备，软包电芯系列设备，整厂PACK设备设计建造解决方案。

圆柱电芯系列设备拥有新能源锂电池双面点焊机，18650/21700分选贴纸机，26700/32650分选贴纸一体机，大圆柱分选机，CCD正负极视觉检测，龙门架点焊机及半自动圆柱线体生产线解决方案。

方形电芯系列设备主要有新能源锂电池激光焊接机，方形分选机，拘紧机，EOL测试机及全自动、半自动方形线体生产线解决方案。

软包电芯系列设备主要有软包裁切机，EOL测试机，极耳激光清洗机及半自动软包线体生产线解决方案。

稳进智能坚持科技为本，技术创新，每年持续加大研发投入，获得多项技术专利，同时大量引进海内外行业精英，研发团队具备丰富的激光及自动化开发经验。

稳进智能销售网络遍布全球，旨在为客户提供完善的客户服务、具有市场竞争力的方案。

Shenzhen Wenjin Intelligent Equipment Co., Ltd. is a national-level high-tech enterprise with its R&D, design, production, sale, and service. Wenjin Intelligent Equipment ploughs deep in devices for new energy lithium battery packs and Non-standard automation customization fields all the time.

At present, the main products are divided into three categories: cylindrical battery series equipment, square aluminum shell battery series equipment, and soft pack battery series equipment; the company also offers solutions for whole factory PACK device design and building.

The cylindrical battery series equipment possesses dual sides spot welding machine for new energy lithium battery, 18650/21700 sorting and pasting machine, 26700/32650 sorting stickers in one machine, large cylinder sorting machine, CCD positive and negative visual detection, gantry frame spot welding machine and semi-automatic cylindrical line production line solution.

The square battery series device mainly includes a laser welding machine for new energy lithium batteries, a square sorting machine, a tensioner, an EOL testing machine, and a dull automatic, semi-automatic square line production line solution.

Soft package battery series device mainly has a soft package cutting machine, EOL testing machine, battery tab laser cleaner, and semi-automatic soft package line production line solution.

Wenjin insists on the idea of technology-based, technological innovation, and continues to increase research and development investment every year, therefore, the company wins various technical patents and brings in a large number of industry elites at home and abroad. The R&D group has plenty of laser and automation development experience.

Wenjin Intelligent has a worldwide sales network, aiming at providing customers with perfect customer service and market-competitive solutions.

部分战略合作伙伴 Parts of our partners



多项资质认证 Various certifications



厂家供应 多年的行业经验 质量放心

SUPPLIED BY FACTORY THAT HAS YEARS EXPERIENCE, QUALITY IS UNDER GUARANTEED



设备介绍 Equipment introduction		设备优势 Equipment advantages
设备电源单相 Equipment power single phase	220V/380V±10%/50Hz±10%	焊接电流实时监控, 虚焊, 炸火报警提示 Welding current real-time monitoring, alarm when dry jointing and explosion
适用范围 Range of application	平行焊最大厚度:0.03mm-0.2mm max thickness of parallel welding: 0.03mm-0.2mm	不受电压影响, 焊接不发黑, 不发黄 Unaffected by voltage, no-blackening non-yellowing when welding
适用范围 Range of application	凸点焊最大厚度:0.2mm-0.3mm max thickness of projection spot welding: 0.2mm-0.3mm	性价比高, 实惠耐用, 使用方便 High cost effective, affordable and durable, easy to use
设备运行气压 Equipment operation air pressure	0.4-0.8Mpa	
整机重量 Weight of the whole machine	50KG	
外形尺寸 Boundary dimension	630L*930W*1500H (mm)	



技术参数 Technology parameter		设备配置 Layout of equipment		
工作电压 Working voltage	220V±10%/50Hz±10%, 功率: ≤500W Power	流水带 Assembly line	稳进定制 Wenjin customization	1.5米 1.5 meter
相机视野尺寸 Camera field size	800mm*800mm	相机 Camera	海康威视 HIKVISION	智能 Intelligent
外形尺寸 Boundary dimension	L:1500mm×W:900mm×H:1700mm	电脑 Computer	稳进定制 Wenjin customization	-
最大检测尺寸 Max detecting size	280mm*380mm	显示屏 Display screen	稳进定制 Wenjin customization	21寸 21 inch
可存储文件数 Number of files that can be stored	99组 99 groups	软件 Software	稳进定制 Wenjin customization	V.025

设备优势 Equipment advantages	
1	检测速度快; Fast testing speed
2	操作使用易上手; Easy to operate
3	辨识度达到精准, 有效减少电池生产中事故发生; 流水带可设置错误退回功能。 Accuracy of recognition cuts the accident rate effectively when producing batteries; the assembly line can be set error return function.
4	可检测电芯正负极摆反, 可检测出青稞纸贴反导致正负极摆反问题。 It can detect whether the negative and positive electrodes of the cell have been put upside down, and the problem of the positive and negative poles swinging back caused by the reverse of the paper paste of highland barley can be detected.



设备介绍 Equipment introduction

设备电源单相 <small>Equipment power single phase</small>	220V/380V±10%/50Hz±10%	操作系统 <small>Operation system</small>	嵌入式系统+人机画面 <small>embodied system+ Man-machine screen</small>
设备运行气压 <small>Equipment operational pressure</small>	0.5-0.6Mpa	传动方式 <small>Kind of drive</small>	伺服+步进+进口精密线性导轨 (可选进口电机) <small>servo+ stepper + import precision linear guide (optional imported motors)</small>
整机重量 <small>Whole machine weight</small>	200KG	焊接厚度 <small>welding thickness</small>	平焊0.1-0.2, 凸点0.2-0.3 <small>flat welding 0.1-0.2, projection spot: 0.2-0.3</small>
外形尺寸 <small>Boundary dimension</small>	1000L*900W*1680H(mm)	设备优势 Equipment operation air pressure	
X / Y 轴行程 <small>Z and Y-axis travel</small>	X:580mm Y:380mm	焊接电流实时监控, 虚焊, 炸火报警提示 <small>Welding current real-time monitoring, alarm when dry jointing and explosion</small>	
点焊速度 <small>Spot welding speed</small>	0.3S/点(spot); 2500pcs/H-3500pcs/H	实现快速编程使用, 简单, 明确 <small>Achieve fast programming use, simple and unequivocal</small>	
电机传动最大速度 <small>Maximum speed of motor drive</small>	1000mm/s	带水冷冷却功能和焊针更换预报 <small>With water cooling function and needle replacement forecast</small>	
最大装载电芯数 <small>Max cell mounted number</small>	350PCS (标准18650电芯) <small>350PCS (standard: 18650 cells)</small>	焊针磨损自动补偿实现焊接压力一致, 效率高 <small>Automatic compensation when the welding needle is worn out so that the welding pressure is consensus, and highly effective.</small>	
可储存文件组数 <small>Storage file group numbers</small>	99组 <small>99 groups</small>	实现机械循环点焊, 增加效率 <small>Achieve machine cyclic spot welding, improve efficiency</small>	

设备介绍 Equipment introduction

设备电源单相 <small>Equipment power single phase</small>	220V/380V±10%/50Hz±10%	操作系统 <small>Operation system</small>	嵌入式系统+人机画面 <small>embodied system+ Man-machine screen</small>
设备 <small>Equipment</small>	electronic control only	传动方式 <small>Kind of drive</small>	伺服+步进+进口精密线性导轨 (可选进口电机) <small>servo+ stepper + import precision linear guide (optional imported motors)</small>
整机重量 <small>Whole machine weight</small>	400KG	焊接厚度 <small>welding thickness</small>	平焊0.1-0.2, 凸点0.2-0.3 <small>flat welding 0.1-0.2, projection spot: 0.2-0.3</small>
外形尺寸 <small>Boundary dimension</small>	1500L*900W*1800H (mm)	设备优势 Equipment advantages	
Z轴行程 <small>Z-axis travel</small>	300mm	焊接电流实时监控, 虚焊, 炸火报警提示 <small>Welding current real-time monitoring, alarm when dry jointing and explosion</small>	
Y轴行程 <small>Y-axis travel</small>	600mm	实现快速编程使用, 简单, 明确 <small>Achieve fast programming use, simple and unequivocal</small>	
点焊速度 <small>Spot welding speed</small>	1S/点(spot); 3500pcs/H-4500pcs/H	带水冷冷却功能和焊针更换预报 <small>With water cooling function and needle replacement forecast</small>	
最大装载电芯数 <small>Max cell mounted number</small>	450PCS (标准18650电芯) <small>450PCS (standard: 18650 cells)</small>	焊针磨损自动补偿实现焊接压力一致, 效率高 <small>Automatic compensation when the welding needle is worn out so that the welding pressure is consensus, and highly effective.</small>	
可储存文件组数 <small>Storage file group numbers</small>	99组 <small>99 groups</small>	实现机械循环点焊, 增加效率 <small>Achieve machine cyclic spot welding, improve efficiency</small>	



设备介绍 Equipment introduction

10档通用电池分选机是一款用于圆柱电池的内阻、电压等参数的测试分选设备，自带高精度内阻、电压自动测试系统，该设备根据在人机界面软件上设定的内阻、电压值精确的将电池送入到指定档位，系统最多可实现10档（即9+1，9个OK档，1个NG档）分选。结构设计简洁大方，性能稳定。在市场上，迄今为止是性价比最高的一款分选设备之一。

The 10-speed universal cylindrical sorter is a sorting machine for testing the cylindrical battery's internal resistance and voltage. It comes with high-precision internal resistance and a voltage automatic testing system. The device puts batteries into designated gears through the number of internal resistance and voltage in the HMI software. The system can realize ten-speed sorting at most (9+1, nine OK speed, one NG speed). The structure design is simple and elegant, and the performance is stable. In the market, so far, it is one of the most cost-effective sorting equipment.

设备优势 Equipment advantages

工作电压 Working voltage	单相 AC220V±5%/50Hz, 功率: P≤600W single-phase AC 220V±5%/50Hz, Power: P≤600W	分选机框架材料 Material of the sorter's frame	优质厚冷轧板与40X40方通制作。 quality thick cold rolled sheet and 40X40 square tube
工作气源 Working air source	0.4~0.6Mpa	电控器件 Electronic control device	PLC、步进电机控制，品牌传感器等配件。 PLC, stepping motor control, brand sensor, etc.
适应电池规格 Adapting battery specification	21700圆柱电芯 21700 cylindrical cell	操作界面 Operation interface	触摸屏 touchscreen
效率 Efficiency	≥ 3000~3500	仪器 Instrument	标配和普HK3561(可根据客户要求选定品牌型号) Instrument: standard configuration and normal HK 3561 (able to choose brand and model through customers demands)
料仓存料约 Bunker storage	21700=350支电芯 21700=350 batteries	分选参数 parameter	开路电压、交流内阻 OVC, AC internal resistance
设备重量 Equipment weight	约 300kg about 300kg	开路电压 OVC	精度 +/- 0.10% rdg, 显示分辨率 0.1毫伏" OVC: precision +/- 0.10% rdg, display resolution ratio 0.1mv
外形尺寸 Boundary dimension	1390 (L) ×840 (W) ×1405 (H) mm		



设备介绍 Equipment introduction

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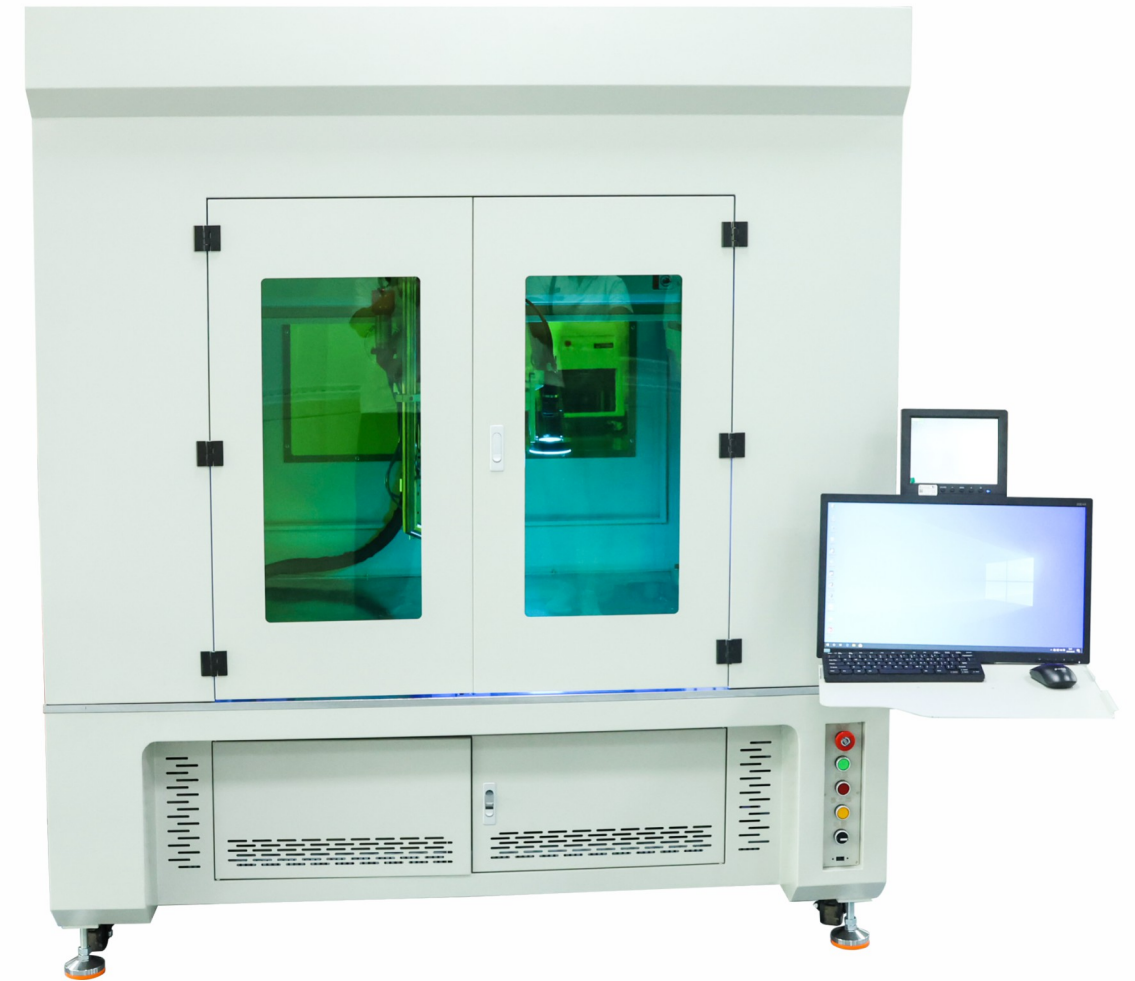
设备介绍 Equipment introduction

激光焊接设备采用1000瓦-6000瓦光纤连续激光器，光电转换效率高，激光器寿命长，光电转换率可达35%，是当前转换能量最高的激光器，该机型采用龙门式平台，自动升降激光束，在焊接大幅面电池pack有极大的优势。适用于新能源车电池转毂，翻转片，极耳，极柱，防爆片，汇流排软连接，方壳及大聚合物动力电池pack的激光焊。

Use 1000W to 6000W continuous wave fiber laser as laser welding equipment, the photoelectric conversion efficiency is high, and the using life of machine is longer. The photoelectric conversion efficiency can reach 35%, which is currently the highest conversion energy laser. This machine fits out gantry platform and automatically up and down laser beam that makes it has great advantages welding in large format battery pack. The machine is working well in the laser welding of new energy batteries to nickels, flip sheets, battery tabs, battery posts, explosion-proof plates, flexible connection of busbars, square shells, and large polymer power battery packs.

设备优势 Equipment advantages

1	大幅面工作台可以根据产品的实际生产需求可焊接大小不一的产品，安装多套夹具，方便灵活 Large format platform is able to weld products of all sizes through real production demand. Equipping multiple fixtures so it is convenient and flexible.
2	免加工无污染，热影响区小，变形小，可冷却介质净化处理，使器件寿命延长，日常维护方便 Process-free and pollution-free, the heat affected zone and deformation are small, able to cool medium and purify so that make the machine's life longer and ease daily maintenance.
3	焊缝细，深度大，锥度小，精度高；外观光滑，平整美观 Welding line is thin, great deep, with small taper and high precision; the appearance is smooth and beautiful.
4	高清晰同轴视觉CCD系统与线光源定焦系统的完美结合，使焊接抄线编程更轻松方便。 High definition coaxial vision CCD system combines perfectly with linear light source focusing system so that the welding wire programming is easier and more convenient.
5	由PC机控制，专业软件辅助，操作简便易学 Controlled by PC, professional software assistance, the operation is simple and easy to learn. (1) 设备结构紧凑合理，外型美观，占用空间小，兼容性强，只需更换滚轮。 (2) 设备操作简单，无须专业人员培训，工人均能轻松掌握。 (3) 设备采用PLC+触摸屏控制，操作简单易学，工作效率高，节省人力成本，产品性能良好。 (1) The machine structure is reasonable and compat. with beautiful appearance. It occupies a small area with strong compatibility, and only need to change its wheels. (2) The machine is easy to operate, no need trainer, all workers can easily master. (3) The device use PLC plus touch screen for control. The operation method is easy to master. High working efficiency, save labor cost, good product performance.



设备介绍 Equipment introduction

激光焊接设备采用1000-6000瓦光纤连续激光器，光电转换效率高，激光器寿命长，光电转换率可达35%，是当前转换能量最高的激光器，该机型采用龙门式平台，自动升降激光束，在焊接大幅面电池pack有极大的优势适用于新能源车电池转毂，翻转片，极耳，极柱，防爆片，汇流排软连接，方壳及大聚合物动力电池pack的激光焊。

Laser welding equipment using 1000-6000 watts fiber-optic continuous-wave laser, photoelectric conversion efficiency high, long laser live, photoelectric conversion rate of up to 35%, is the current conversion energy of the highest laser, this model uses gantry-type platform, automatic lifting laser beam, pack in large format battery welding has great advantages. Suitable for new energy lithium battery nickel, Flip, ear, Pole, explosion-proof sheet, bus soft connection, square shell and large polymer power battery pack laser welding.

设备优势 Equipment advantages

1	大幅面工作台可以根据产品的实际生产需求可焊接大小不一的产品安装多套夹具，方便灵活。 Large size worktable can be welded according to the actual production needs of products of different sizes, installation of multiple sets of fixtures, convenient and flexible.
2	免加工无污染，热影响区小，变形小，可冷却介质净化处理，使器件寿命延长，日常维护方便。 No pollution, head-affected zone small, small transformation, can be cooled medium purification treatment, so that the device long life, convenient daily maintenance.
3	焊缝细，深度大，锥度小，精度高；外观光滑，平整美观。 Thin weld, great depth, small taper, high precision, smooth appearance, smooth and beautiful.
4	高清晰同轴视觉CCD系统与线光源定焦系统的完美结合，使焊接抄线编程更轻松方便。 The perfect combination of high-definition coaxial vision CCD system and liner light source focusing system makes welding line copying programming is easier and more convenient.
5	由PC机控制，专业软件辅助，操作简便易学。 Controlled by PC, professional software, easy to operate and learn.



设备介绍 Equipment introduction

(1) 工作原理: 光纤激光打标机, 激光波长为1064nm, 输出功率大、稳定性好、雕刻线条均匀细致、能够进行深度雕刻。高能量的激光光束经过X/Y轴高速扫描振镜控制激光能量微粒的运动, 使其在物体表面进行灼烧(塑料表面灼烧后碳化呈灰黑色, 金属表面及带涂层的玻璃表面经过灼烧后直接挥发而显现材料本身的颜色)而形成的标记烙印。
 (2) 产品应用: 全能型光纤激光打标机采用基于最新技术的光纤激光器, 最大单脉冲能量达1mj, 峰值功率超过20KW, 脉冲频率范围1KHz-1000KHz可调, 是塑料灯具, 筒灯打标, 黑色塑料打白(键盘, 按键透光, 汽车产品)金属深雕(深雕效率是普通机型的一倍)。
 (3) 适用材料: 普通金属及合金(尤其适用于铝合金)、表面特殊处理(碳化、铝阳极化、电镀)过的金属、大部分的塑料(PE/PA/PC/ABS/环氧树脂等)。
 (4) 特殊应用: 控制软件运行于Windows系统, 中文界面, 操作简单、能兼容AutoCAD/Coreldraw/Photoshop等软件, 可以直接应用PLT/AI/DXF/BMP/JPG格式进行打标, 同时也能直接使用系统字体, 可进行序列号、条形码、二维码等自动流水跳号打标。

(1) Working principle: fiber laser marking machine: the laser wavelength is 1064nm; high output power and good stability. The engraving lines are uniform and meticulous and can operate deep engraving. The motion of laser energy particles about high energy laser beam is controlled by X/Y axis high-speed scanning galvanometer so that it can scorch the body surface of something and form a marked brand (The surface of the plastic is scorched and carbonized to grayish black, the metal surface and the glass surface with coat volatilize directly and show their real color after scorch.)
 (2) Application: All-purpose fiber laser marking machines use a fiber laser machine that is based on the latest technology. The maximum single pulse energy is 1mj; the peak power is over 20KW; the pulse frequency range 1KHz-1000KHz and is adjustable; it is good for carving plastic lamps and lanterns, metal deep carving, marking downlights, whitening black plastics, like keyboards, key transmission, and automobile product; the deep engraving efficiency is double that of ordinary models.
 (3) Applicable material: normal metal and alloy (especially aluminum alloy), Metal with a specially treated surface (parkerising, aluminum anodizing, electroplate), most of the plastics (PE/PA/PC/ABS/epoxy resin, etc.)
 (4) Special application: The operation software works in Windows system with a Chinese interface, is easy to operate, and is compatible with software like AutoCAD/Coreldraw/Photoshop, can use PLT/AI/DXF/BMP/JPG formats to mark directly. Meanwhile, it can use system font directly, and it can carry out the serial number, bar code, two-dimensional code, and other automatic water jump marking.

技术参数 Technology parameter

平均激光功率 Average laser power	30W	雕刻深度 Carving depth	≤0.8mm
激光波长 Optical maser wavelength	1064+2nm	雕刻线速 Carving speed	≤8000mm/s
光束质量 Optical quality	m ² <1.4	最小线宽 Minimum linewidth	0.01mm
激光重复频率 Laser repetition rate	1KHz-1000KHz	最小字符 Minimum character	0.15mm
标准雕刻范围 Standard engraving range	150mmx150mm	重复精度 Repeated accuracy	±0.002mm
整机耗电功率 Power consumption of the whole machine	600W	激光器 Laser	创鑫 Chuangxin
电力需求 Power demand	220V/3A	激光模块寿命 Laser module lifetime	10 万小时 100 thousand hours
冷却方式 Type of cooling	风冷 Wind cooling	振镜配置 Galvanometer configuration	5000mm/s



设备介绍 Equipment introduction

本系统为通用贴面垫青裸纸设备, 由人工将电池上到料仓按下启动键自动送料冲切贴纸, (可连接到独立分选设备)此设备贴纸适用电芯: 18650/21700/26650/32700电芯贴纸
 The system is a universal veneer pad green bare paper equipment, and its operation is bringing in the batteries to the bunker artificially and pushing the start key then the machine automatically feeds and cuts stickers. (Can connect with Independent sorting equipment)The equipment stickers are suitable for batteries like 18650/21700/26650/32700 batteries stickers.

技术参数 Technology parameter

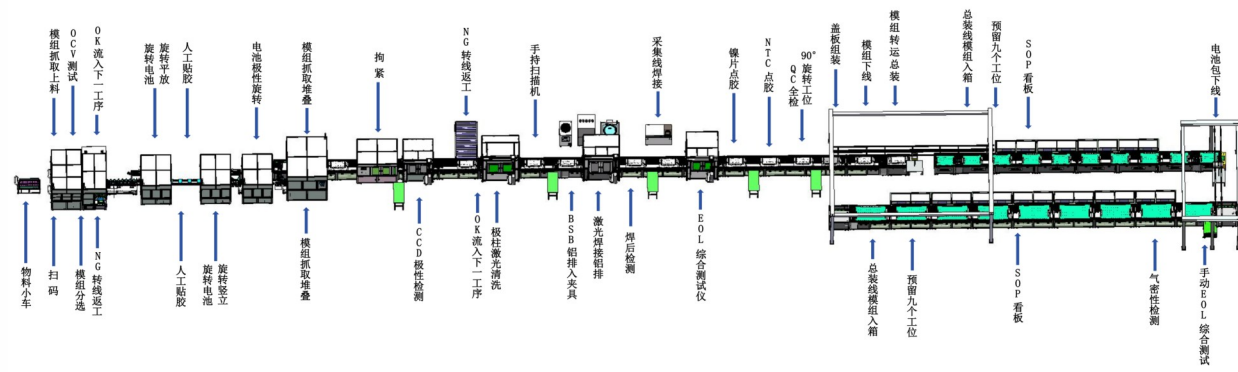
工作电压 Working voltage	单相 AC220V±5%/50Hz,功率: P≤1.5KW single-phase AC 220V±5%/50Hz, Power: P≤1.5KW
工作气源 Working air source	0.4~0.6Mpa
适应电池规格 Adapting battery specification	18650/21700/26650/32700圆柱电芯贴纸 18650/21700/26650/32700 cylindrical battery stickers
贴纸效率 Sticker efficiency	≥ 3000~4000
料仓存料约 Bunker storage	18650=400支电芯 21700=350支电芯, 26650=300支电芯 32700=130支电芯 18650=400 PCS of batteries, 21700=350 PCS of batteries, 26650=300 PCS of batteries, 32700=130 PCS of batteries
设备重量 Equipment weight	约 300kg about 300kg
外形尺寸 Boundary dimension	1300 (L) ×600 (W) ×1460 (H) mm
分选机框架材料 Material of the sorter's frame	优质厚冷轧板与40X40方通制作。 quality thick cold rolled sheet and 40X40 square tube
电控器件 Electronic control device	PLC、步进电机控制, 品牌传感器等配件。 PLC, stepping motor control, brand sensor, etc.
操作界面 Operation interface	触摸屏 touchscreen

可根据客户的实际要求生产定制工艺流程的设备

ABLE TO CUSTOMIZE MACHINE THROUGH CUSTOMERS' REAL DEMAND

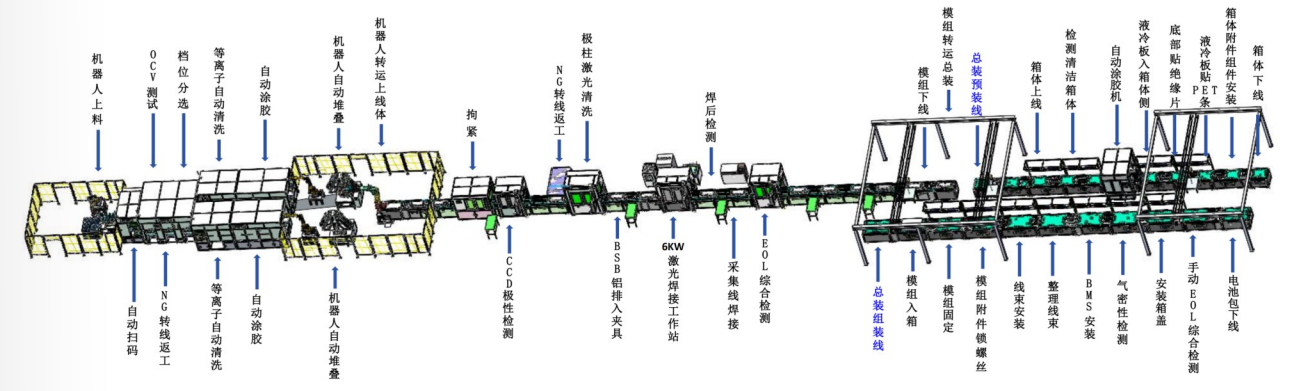
液冷工商业储能模组堆叠方案工艺流程图

Production line process flow chart of liquid cooled industrial and commercial energy storage module



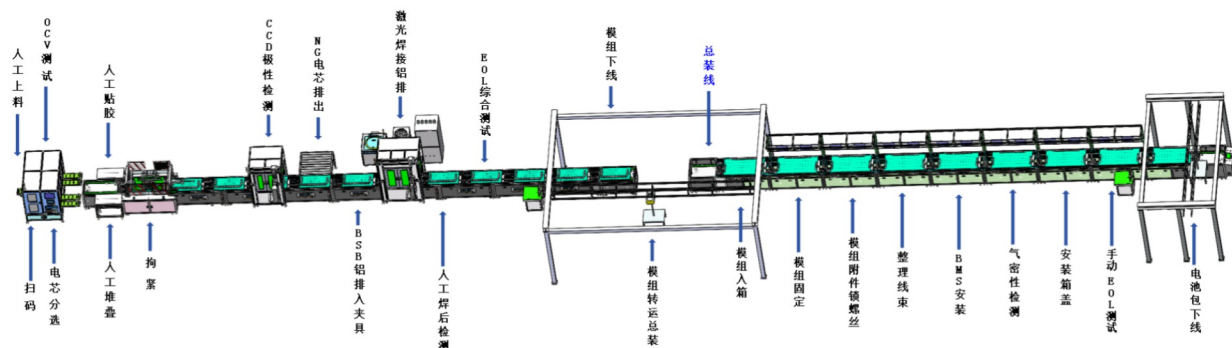
液冷工商业储能PACK生产线工艺流程图

Production line process flow chart of liquid cooled industrial and commercial energy storage PACK



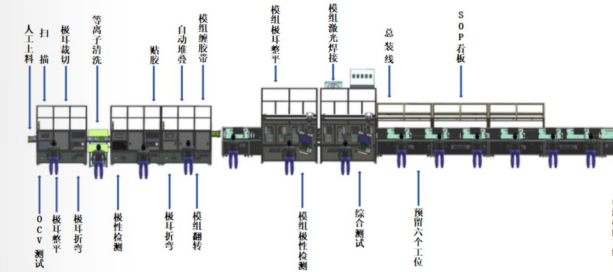
家储PACK产线工艺流程图

Home energy storage PACK production line process flow chart



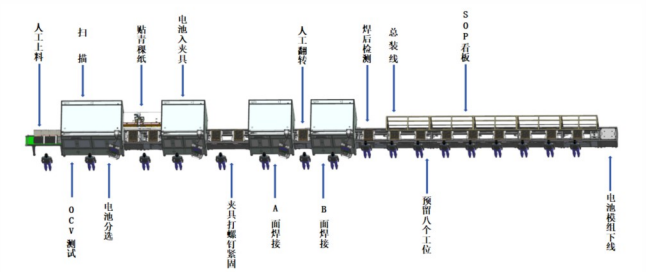
储能软包电池模组PACK线

Energy storage soft package battery group pack line



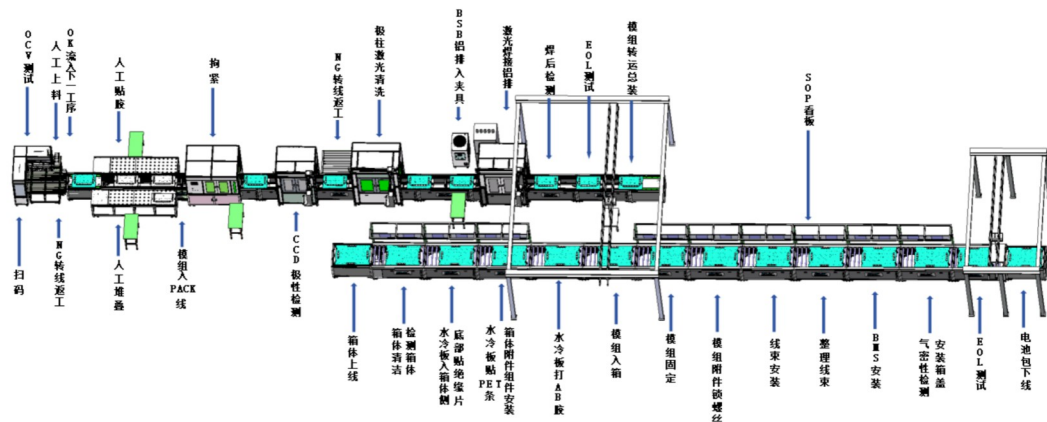
储能圆柱电池模组PACK线

Energy storage cylindrical battery module pack cable



工商储PACK产线工艺流程图

Industrial and commercial energy storage PACK production line process flow chart



家储PACK组装焊接滚筒线图

Home storage PACK assembly welding drum diagram

