

企业使命 OUR MISSION

帮助客户卓越，成就奋斗者梦想！

To make our customers more outstanding and achieve the dreams of the strivers!

企业愿景 OUR VISION

创造全球最领先的新能源装备，帮助我们的客户更卓越！

Create the world's most leading new energy equipment to make our customers more outstanding!

核心价值观 CORE VALUES

精诚合作 共享双赢 求真务实 开放创新

Collaboration, win-win sharing, pragmatism, and open innovation.



赢合科技公众号



赢合科技官网

深圳市赢合科技股份有限公司
惠州市仲恺高新区东江科技园惠泽大道301号
T: 0752-7388333 W: www.yhwins.com

SHENZHEN YINGHE TECHNOLOGY CO., LTD.
No. 301, Huize Avenue, Dongjiang Science and Technology Park,
Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China
T: 0752-7388333 W: www.yhwins.com



上海电气
SHANGHAI ELECTRIC



赢合科技
YINGHE TECHNOLOGY

新 质 智

高 质 发 展



18年

行业经验

Industry experience



2015年

锂电设备领域首批上市企业

The first IPO of Lithium-ion battery equipment manufacturing in China



4

制造基地

Manufacturing bases



200亿

产能

Production capacity



61000m²

厂房面积

Plant area



5+

牵头制定行业标准

Take the lead in formulating Industry standards



2500+

专利

Authorized patents



190+

发明专利

Invention patents

公司概况 COMPANY OVERVIEW

赢合科技创建于2006年，2015年成功上市，成为锂电装备行业首批上市企业。产品应用于动力、储能及消费类电池等多个领域，是目前全球少数能够提供锂电池智能化数字工厂解决方案的企业之一

公司在全球设立了10家子公司、4大制造基地，年产能可达200亿，产品远销海外多个国家和地区；秉承“帮助客户卓越”的企业使命，围绕客户持续搭建与完善全球多中心的本土化服务体系，为设备提供全生命周期管理，为客户持续提供最优的智能装备解

Founded in 2006, Yinghe Technology was successfully listed in 2015, becoming one of the first listed companies in the lithium-ion equipment industry. As our products apply to multiple fields such as power, energy storage and customer batteries. Our company is one of a select few worldwide that is able to provide intelligent digital factory solutions for lithium batteries.

Powered by 10 subsidiaries and 4 production bases worldwide, our annual capacity is up to 20 billion RMB, and our products had been sold to countries and regions globally. Following the corporate mission of "Making our clients more excellent", we continue to build and improve the global multi-center localized service system to our clients,

决方案和最敏捷的本土服务。

面向新能源全球化浪潮，赢合科技将在上海电气的引领下，加快建设成为世界一流的锂电装备智造方案解决商，以极致智造助推中国装备力量迈向世界一流，共担绿色发展使命，共创“0”碳未来！

provide full life-cycle management of equipment, and continue to provide clients with the best intelligent equipment solutions and the most agile local services.

Facing the wave of new energy globalization, Yinghe Technology will accelerate the construction of a world-class lithium battery equipment intelligent manufacturing solution provider by the leading of Shanghai Electric, and promote China's equipment force to the world's first-class level with the ultimate intelligent manufacturing. We also share the mission of green development and create a zero-carbon future!

发展历程
DEVELOPMENT MILESTONES

2006

2006年6月，赢合科技成立，公司定位于自动化设备的开发、生产和销售

In June 2006, Yinghe Technology was founded, focusing on the research & development, production, and sales of automatic equipment.

2009
2010

2009年12月，被授予“国家高新技术企业”
2010 12月，正式IPO

2009年2月，推出“全自动制片机系列”，凭借优越的性能迅速成为市场新宠

In December 2009, Yinghe was awarded the title of "National High-tech Enterprise".
In December 2010, Yinghe officially launched the GEM IPO plan.

In February 2009, the Full-automatic Cell Sheet Forming Machine Series was launched, which became a new hot sell in the market due to its superior performance.

2011
2014

2014年11月，获“国家火炬计划重点高新技术企业”

2012年10月，推出全国领先的全自动圆柱制片卷绕一体机，填补国内空白；
2013年12月，组装机、注液机等后段设备投入市场，形成了完整的设备生产线

In November 2014, Yinghe was awarded the "Key High-tech Enterprise of National Torch Plan".

In October 2012, China's leading Full-automatic Cylindrical Cell Sheet Forming & Winding Integrated Machine was launched, which filled up the blank of domestic market.
In December 2013, the Assembly Line and Injection Equipment were launched on the market, forming a complete equipment production line.

2015

2015年5月,在深交所创业板上市，股票代码：300457

2015年8月，业内首条锂电池整线设备投入运营

In May 2015, Yinghe was listed on Shenzhen Stock Exchange GEM, with the stock code: 300457.

In August 2015, the industry's first Entire Lithium-ion Cell Production Line was put into operation.

2016
2018

2016年12月，全资收购雅康精密机械有限公司

2016年10月，国内首条镍氢电池整线设备下线
2018年5月 推出行业首台三工位切叠一体机

In December 2016, Yinghe wholly acquired Areconn Precision Machinery Co., Ltd.

In October 2016, China's first Entire Line of Nickel-Metal Hydride Cell Equipment was launched.
In May 2018, industry's first 3-station Cutting & Stacking Integrated Machine was launched.

2019

2019年11月 加入上海电气，迈向高质量发展新阶段

2019年6月，推出行业首台5mm蓝牙分切机

In November 2019, Yinghe became a member of Shanghai Electric and entered a new stage of high-quality development.

In June 2019, Industry's first 5mm width Bluetooth Slitting Machine was launched.

2020

2020年与行业Top10企业达成100%合作，荣获多家全球头部客户授予的核心供应商、战略供应商

2020年5月，推出行业首台1.6m宽幅双层涂布机
2020年7月，推出行业首台45ppm圆柱卷绕一体机，赶超日韩

In 2020, Yinghe achieved cooperation with 100% Top 10 enterprises of the industry, and was awarded as a core supplier and strategic supplier by multiple global top customers.

In May 2020, Yinghe launched the industry's first 1.6m width Double Layer Coating Machine.
In July 2020, Yinghe launched industry's first 45PPM Cylindrical and surpassing Winding Integrated Machine, catching up with the technology of Japan and Korea.

2021
2022

连续2年，销售订单超百亿。
2022 年，东江产业园全面投产
2022年10月，牵头制定锂离子电池极片涂布机、锂离子电池叠片机的行业标准

2022年8月，行业首推4680激光卷绕一体机
2022年10月，行业首推21700激光卷绕一体机

Sales Orders Exceeded 10 Billion For 2 Consecutive Years.
Since 2022, Dongjiang Industrial Park has been fully put into operation.
In October 2022, Yinghe took the lead in benchmarking the standards for lithium-ion electrode slice coating machine and lithium cell stacking machine

In August 2022, Yinghe unveiled industry's first 4680 Cylindrical Cell Winding Machine integrated with laser notching.
In October 2022, Yinghe unveiled industry's first 21700 Cylindrical Cell Winding Machine integrated with laser notching.

2023

完工产值超百亿，公司董事会和领导班子换届工作圆满完成，启动73战略，全面建设世界一流企业

2023年12月，推出行业首台20ppm4695激光切卷绕一体机；
2023年12月，推出行业领先的湿法固态电池涂布机。

In 2023, the output value of the Yinghe exceeded 10 billion(RMB), and the board of directors and the leadership transition of the corporation were successfully completed. Yinghe also initiated the "73 strategy" to comprehensively build a world-class enterprise.

In December 2023, the industry's first 20ppm 4695Laser notching and winding integrated machine.
In December 2023, were launched the industry-leading all-solid-state batteries coating machine by wet process were launched.



惠州东江产业园
Huizhou Dongjiang Industrial Park



惠州惠南产业园
Huizhou Huina Industrial Park



车间实景图
Workshop View



江西宜春产业园
Jiangxi Yichun Industrial Park



车间实景图
Workshop View



深圳斯科尔产业园（租赁）
Shenzhen Baoan Industrial Park (SKR).(Lease)

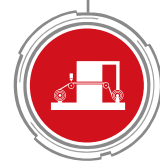


车间实景图
Workshop View

产业布局 INDUSTRIAL LAYOUT



赢合科技
300457
Yinghe Technology



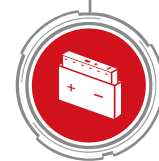
锂电前段生产设备
涂布机、辊压机、分条机
- Pre-process production equipment of Lithium battery
- Coating machine, Calendering Machine, Slitting machine



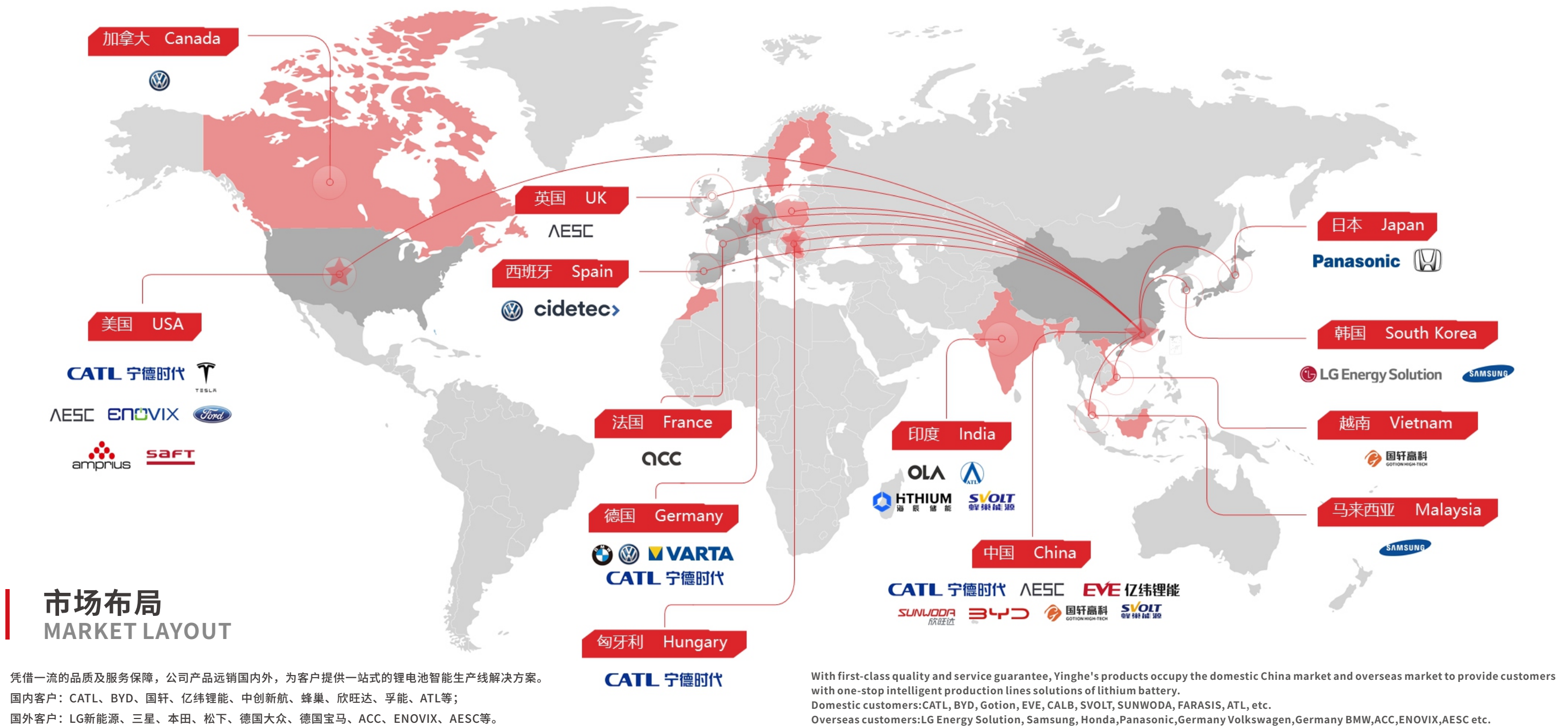
锂电中段生产设备
方形卷绕机、激光切、
激光切卷绕一体机、激光清洗
- Mid-process production equipment of Lithium battery
- Square winding machine, laser notching, laser notching and winding integrated machine, laser cleaning machine
- Laser notching and winding intergrated machine



锂电中段生产设备
模切机、叠片机、切叠一体机
圆柱、铝壳、短刀组装线、注液机
- Middle-process production equipment of Lithium battery
- Notching machine, stacking machine, notching and stacking integrated machine, Cutting and stacking integrated equipment, cylinder, Aluminum shell, short blade assembly line, injection machine



圆柱卷绕机
4680激光切卷绕一体机
Button cell卷绕机
- Cylindrical Winding Machine
- 4680 laser notching and winding integrated machine
- Button cell winding machine



市场布局 MARKET LAYOUT



涂布、辊分系列

COATING , CALENDERING & SLITTING MACHINE SERIES

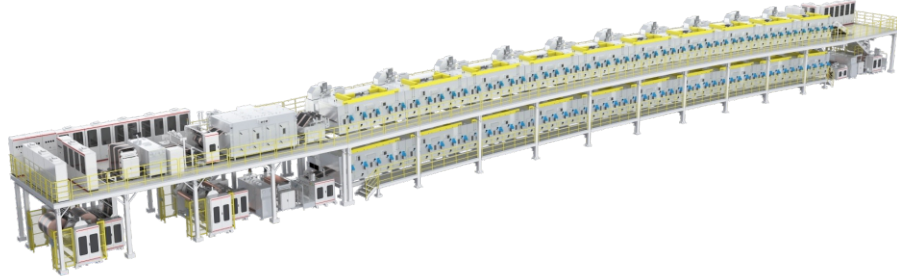
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双层挤压式涂布机

辊面宽度: Max. 1.6m
涂布速度: Max. 120m/min

Double-layer squeeze coating machine

Roller surface width: Max. 1.6m
Coating speed: Max. 120m/min



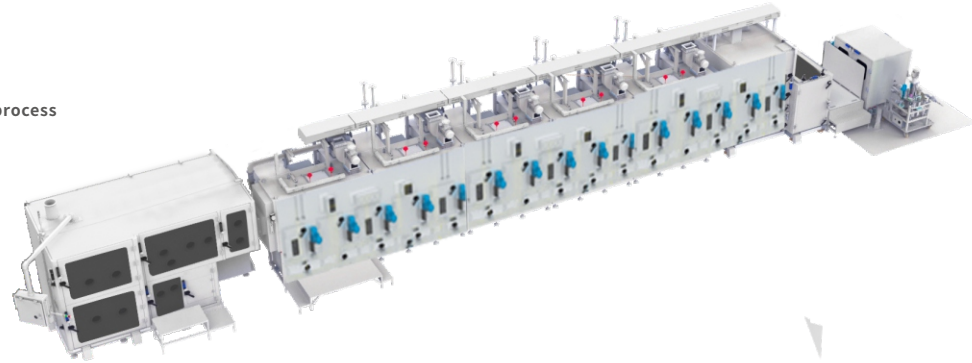
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湿法固态电池涂布机

涂布宽度: 250mm
涂布速度: Max. 10m/min

Solid-state batteries coating machine by wet process

Coating Width: 250mm
Coating Speed: Max. 15m/min



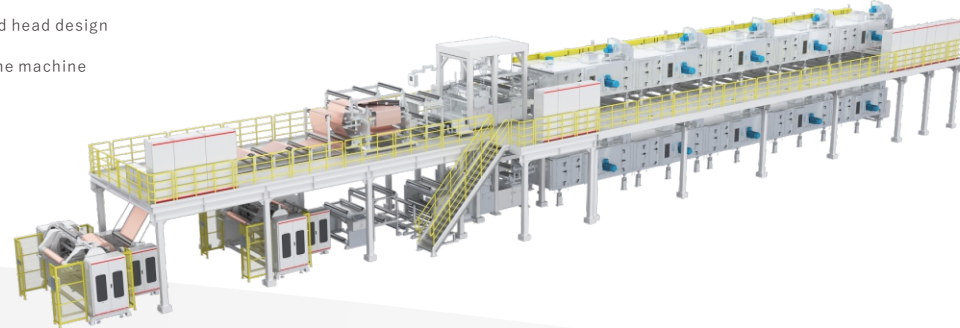
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双层Super-E涂布机

辊面宽度: Max. 1.6m
涂布速度: Max. 120m/min
布局升级: A/B涂布面一体机头设计-高效洁净控制、高效人机工程
结构紧凑: E型全新片路设计-整机长度节约30%以上

Double layer Super-E Coating Machine

Roller surface width: max. 1.6m
Coating speed: max. 120m/min
Layout upgrading: A/B coating side integrated head design
Compact structure: E-type new path design
- save more than 30% of the whole length of the machine



▶▶▶

干法搅拌

料筒规格: 674mm
生产效率: Max. 100L/h

Dry mixing

Cylinder specifications: 674mm
Production efficiency: Max. 100L/h



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辊压分切一体机

辊压规格: Max. 1.5m
高速在线擦辊技术(120m/min)

Calendering and slitting integrated machine

Roller spec: Max. 1.5m
High-speed non-stop roller cleaning technology(120m/min)



▶▶▶

干法电极辊压机

机械速度: Max. 50m/min
厚度精度: +2μm

Dry Electrode Calendering machine

Mechanical speed: Max. 50m/min
Thickness accuracy: +2 μm



方形卷绕&激光系列

SQUARE WINDING & LASER SERIES



方形动力激光卷绕一体机

效率：6PPM(极片长16m)

线速度：Max. 3000mm/s

Laser and winding Integrated Machine for Prismatic Battery

Efficiency: 6PPM (electrode length 16m)

Linear speed: Max. 3000mm/s



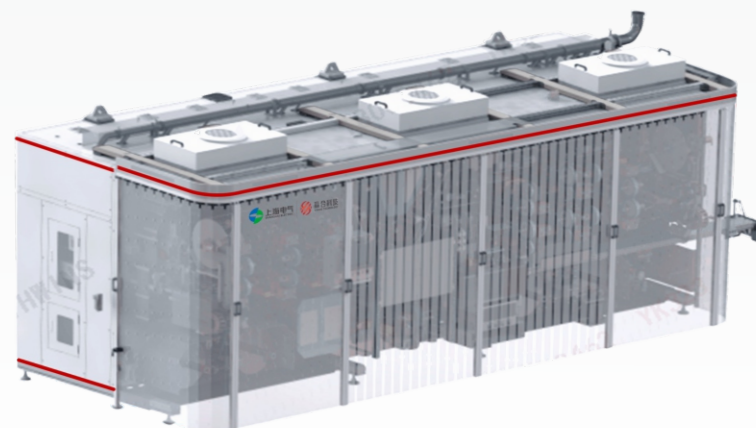
激光裁切一体机

效率：Max. 300PPM

高效除尘，切割品质好！

Laser notching and slitting integrated machine

Max. 300PPM, efficient dust removal, good cutting quality!



3C制卷一体机

机械速度：恒线速 ≥ 600 mm/s

效率：> 21PPM/min

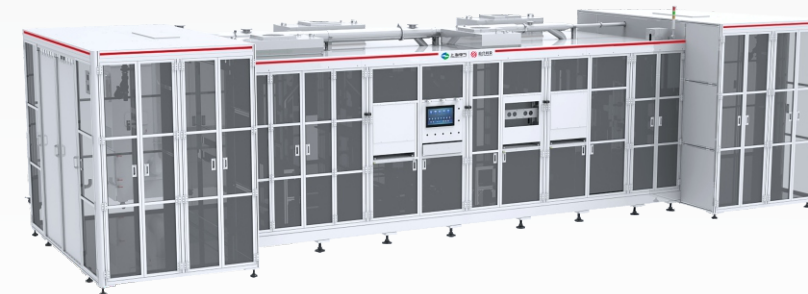
优率：99.5%

3C winding integrated machine

Machinical speed: Constant line speed ≥ 600 mm/s

Efficiency: ≥ 21 PPM

Yield rate: 99.5%



多工位激光清洗机

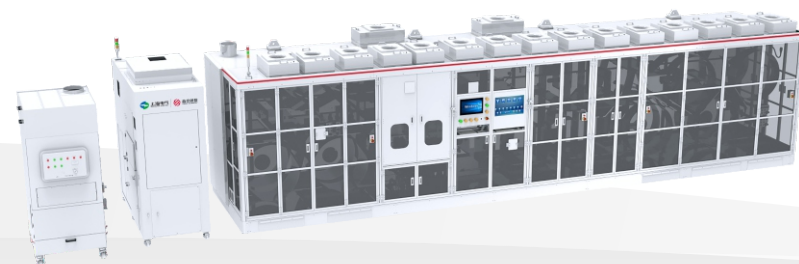
效率：9-15PPM(整片)

合格率： $\geq 99\%$

Multi-station laser cleaning machine

Efficiency: 9-15PPM(Whole piece)

Pass rate: $\geq 99\%$



激光模切机

线速度：Max. 120m/min

极片厚度规格：60-250 μ m

Laser Notching machine

Linear speed: Max. 120m/min

Electrode thickness Specification: 60-250 μ m



激光划线/打孔设备

间距精度： ± 0.1 mm

效率：双激光 ≥ 25 min

合格率： $\geq 99.5\%$

Laser scribing/Drilling equipment

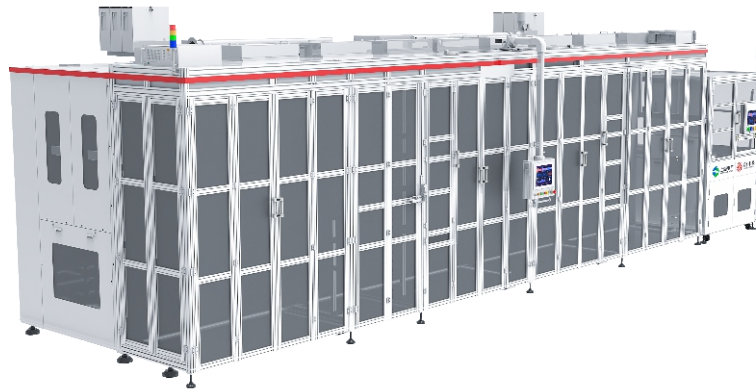
Spacing accuracy: ± 0.1 mm

Efficiency: Dual laser ≥ 25 min

Pass rate: $\geq 99.5\%$

圆柱卷绕系列

CYLINDRICAL WINDING SERIES



46系列激光切卷绕一体机

全球独家开发&量产，20PPM，
良率 $\geq 99.8\%$ ，24小时不停机！

46 series laser notching and winding integrated machine
The first exclusive global launch&mass production, 20PPM,
with a yield rate of 99.8%
without shutdown for 24 hours!



21700高速卷绕机

全球独家开发，40PPM，
良率 $\geq 99.8\%$ ，24小时不停机！

21700 high-speed winding machine
Global exclusive development, 40PPM,
with a yield rate of 99.8%
without shutdown for 24 hours!



Button cell卷绕机

国内独家首发 15PPM，
良率 $\geq 99.5\%$

Button cell winding machine
Domestic exclusive initial launch,
15PPM, with a yield rate of 99.5%!

切叠系列

NOTCHING & STACKING MACHINE SERIES



超高速多工位切叠一体机 0.39s/p

兼容三、四工位
整机一片仅需0.1s!

Ultra-high-speed multi-station notching and stacking machine- 0.39s/p
Compatible with three or four workstations
Only 0.1s for one piece



激光切叠一体机 0.39s/p

一片仅需0.13s!

Laser notching and Stacking Integrated Machine - 0.39s/p
Only 0.13s per piece



切叠一体机（590系列）0.6s/p

兼容三、四工位
一片仅需0.15s

Notching and Stacking Integrated Machine (590) - 0.6s/p
Compatible with three or four workstations
Only 0.15s for one piece

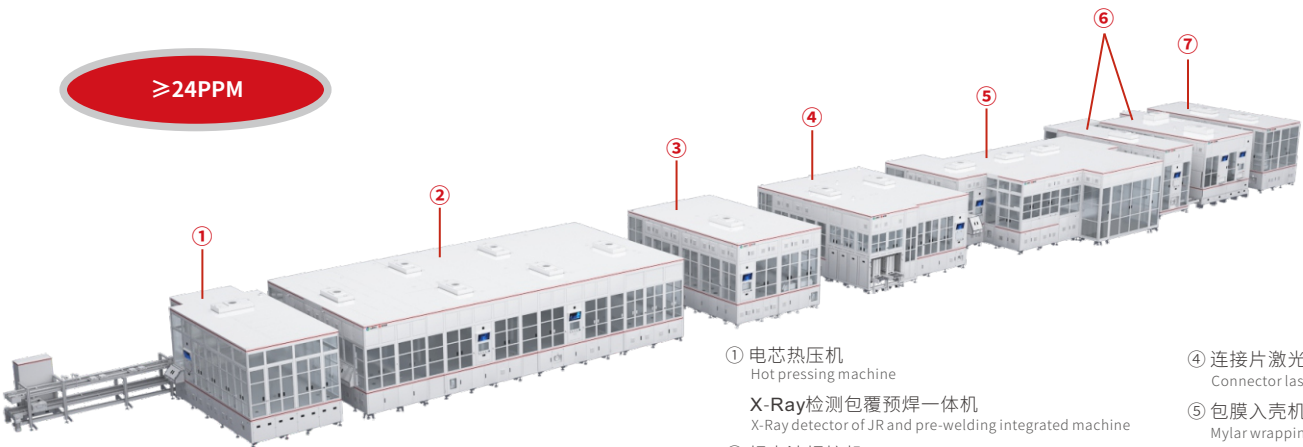
组装机系列

ASSEMBLY LINE SERIES

铝壳电池自动组装机

Automatic Aluminum Shell Battery Assembly Line

≥24PPM



- ① 电芯热压机
Hot pressing machine
- X-Ray检测包覆预焊一体机
X-Ray detector of JR and pre-welding integrated machine
- ③ 超声波焊接机
Ultra-sonic welding machine

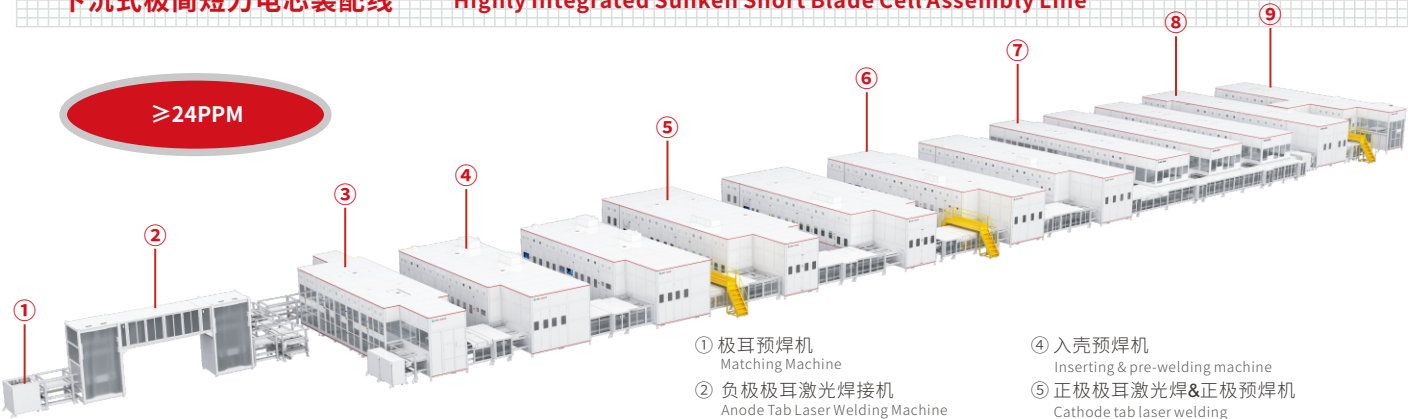
- ④ 连接片激光焊接合芯机
Connector laser welding
- ⑤ 包膜入壳机
Mylar wrapping and can insertion
- ⑥ 顶盖预焊满焊机
Top cover pre-welding and full-welding

- ⑦ 一次氮检机
1st leak test

下沉式极简短刀电芯装配线

Highly Integrated Sunken Short Blade Cell Assembly Line

≥24PPM



- ① 极耳预焊机
Matching Machine
- ② 负极极耳激光焊接机
Anode Tab Laser Welding Machine
- ③ 包Mylar机
Mylar wrapping Machine

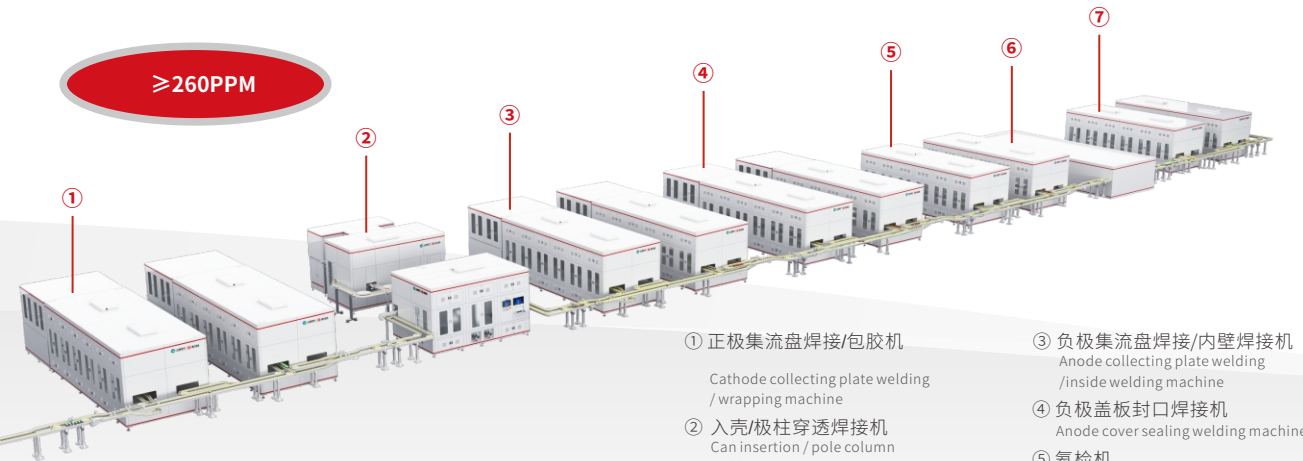
- ④ 入壳预焊机
Inserting & pre-welding machine
- ⑤ 正极极耳激光焊&正极预焊机
Cathode tab laser welding & Cathode pre-welding machine
- ⑥ 顶盖周边焊接机
Top cover periphery welding machine

- ⑦ 一次氮检机
1st leak test
- ⑧ 密封钉焊接机(三工段)
Plug welding (3 stages)
- ⑨ 二次氮检机
2nd leak test

圆柱电池自动组装机

Automatic Cylindrical Cell Assembly Line

≥260PPM



- ① 正极集流盘焊接/包胶机
Cathode collecting plate welding /wrapping machine
- ② 入壳/极柱穿透焊接机
Can insertion / pole column welding machine

- ③ 负极集流盘焊接/内壁焊接机
Anode collecting plate welding /inside welding machine
- ④ 负极盖板封口焊接机
Anode cover sealing welding machine
- ⑤ 氮检机
Leak test

- ⑥ 烘烤/注液
Baking / Filling
- ⑦ 密封钉焊接机
Plug welding Machine

组装机优势

Advantages of Assembly Line



工艺先进性

ADVANCED PROCESS



全新一代焊接工艺，极耳盖板直接激光焊接，最少的结构件组合，最简化的装配工序，降低风险因子和生产成本。

- A new generation of welding process
- Tab cover with laser welding
- The least structural component assembly
- The most simplified assembly process
- Reduce risk factors and production costs

效率先进性

ADVANCED EFFICIENCY



整线效率24PPM（52148100），各工序联动有序，机器人完美配合完成极芯装配。

- Whole line efficiency: 24PPM
- Orderly linkage of each process
- The manipulators cooperate perfectly to complete the pole core assembly

布局先进性

ADVANCED LAYOUT



物流线外挂式布局，整线长宽50x9m，操作简单维护方便，洁净厂房空间节省15%。

- The wall-type layout of conveyor line
- The length of whole line 50*9m
- Easy operation and convenient maintenance
- Save 15% of clean plant space

环境先进性

ADVANCED ENVIRONMENT



导入洁净室设计经验，机台整体采用垂直单向流设计，局部隔离负压洁净控制，保证极芯装配工序环境清洁，可达千级洁净度。

- Clean room design
- Vertical one-way flow design of the whole machine
- Control the cleanliness by partly isolation and negative pressure
- Clean environment of assembly process, up to thousand level cleanliness

模块先进性

ADVANCED MODULE



模块化设计保证设备高稳定性，可快速响应客户各种非标需求，风险低。

- Modular design ensuring high stability of equipment
- Quickly respond to customers' various non-standard requirements of non-standard parts
- Low risk

兼容先进性

ADVANCED COMPATIBILITY



尺寸上兼容U型方壳、T型方壳以及刀片方壳等多种规格电池，尺寸适应范围广，工艺兼容能力强。整线共有53个品质检测点。

- The size compatible with U-shape, T-shape and blade prismatic cell, etc.
- Wide range of size adaptation
- Strong compatibility of process
- 53 quality detection points of whole line

粉尘控制先进性

ADVANCED DUST CONTROL

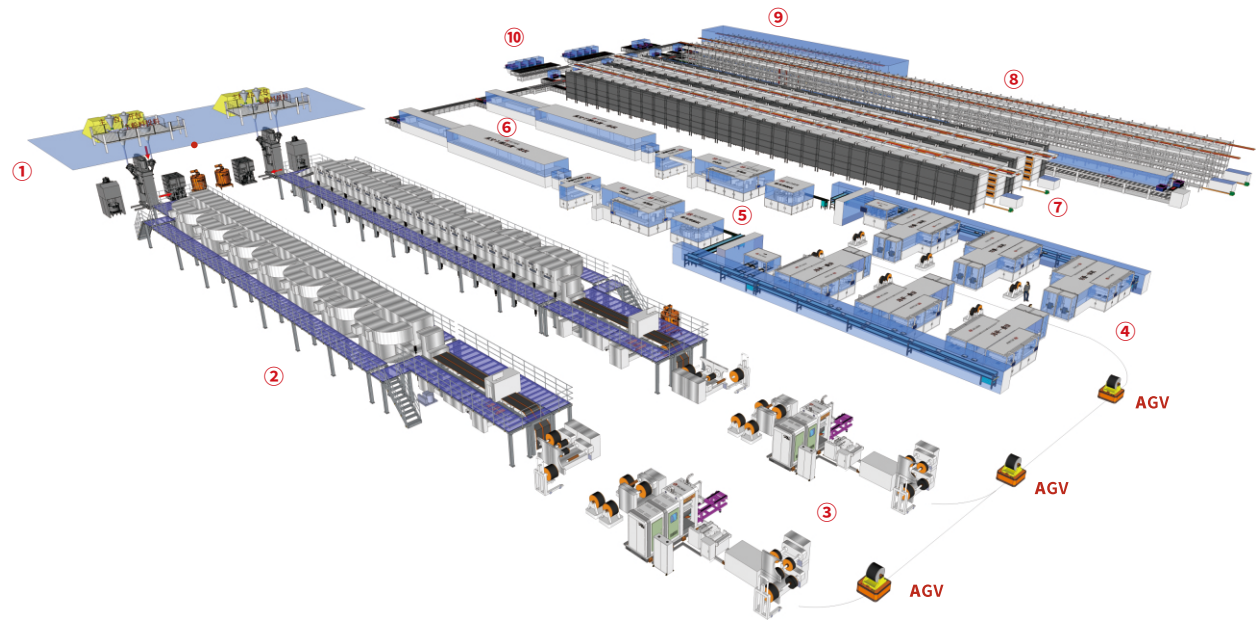


电芯运输无尘化、连接加工无尘化，整线共有32套专业除尘机构。

- Dust-free cell transportation
- Dust-free connection process
- 32 sets of professional dust-removal mechanism

整线解决方案

WHOLE LINE SOLUTION



① 粉料、制浆系统
Powders, Slurry System

② 涂布设备
Coating Machine

③ 辊压/分切
Calendering / Slitting

④ 切叠/切卷
Notching & stacking / Cutting & Rolling

⑤ 组装线
Assembly line

⑥ 干燥/注液
Drying / Injection

⑦ 化成/分容
Formation / Grading

⑧ 高温/常温静置
High temperature / normal temperature soaking

⑨ 注液/封口
Injection / sealing

⑩ 包膜/检测
Wrapping / Testing

优势 ADVANTAGES

整线产品、物料、设备可追溯，品质可控---配套MES

整线设备直通率达95%---设备合格率高，稼动率高

节省用电30%---设备低能耗设计（能量回馈、蒸汽应用等）

节省人员60%---新工艺、整线Layout、物流优化

安全保护措施---专用载具、无金属粉尘设计

整线成本低，付款方式灵活---资金优势

更好品质，更高效率，更低成本，更加安全

Better quality, higher efficiency, lower cost, safer

Traceability and quality control of the whole line of products, materials and equipment - supporting MES.

- Straight-through rate of the whole line of equipment reaches 95%--high qualification rate of equipment, high rate of operation.

- 30% power saving - low energy consumption design of equipment (energy feedback, steam application, etc.)

- Saving 60% of personnel - new technology, whole line layout, logistics optimisation.

- Safety measures - special carrier, metal dust-free design.

- Low line cost and flexible payment options - financial advantages.

实力

STRENGTH

2014年提出整线解决方案并完成交付;

目前有40余条整线合作的实践经验。

In 2014, we proposed the whole line solution and completed the delivery, and now we have more than 40 whole line co-operation practice experience.

设备

EQUIPMENT

专业打造行业对口MES系统、实现人机料法环各生产要素的信息交互,实现自动化、智能化生产和管控;整体规划在各工序间嵌入物流线、物流车、机械手、堆垛机、机器人等、实现生产过程无缝对接,提高生产率;从各种形态的原材料-极片-芯包-电芯半成品-电芯成品,都设计相应的夹具、载具、料框进行保护性周转,提高产品品质。

We are professional in creating industry-counterpart MES system,realising information interaction among all production elements of man,machine, material, method and environment to achieve automation, intelligent production and control.The overall plan is to embed logistics lines, logistics vehicles, manipulators, stacking mechnes, robots and so on to achieve seamless production processes and improve productivity. To improve the quality of products, the corresponding fixtures, carriers and material frames are all designed to protect the circulation of various forms of raw materials — electrode — core pack — cell semi-finished products — cell finished products.

交付

DELIVERY

短产线建设周期,采用3+1模式;

不同团队阶梯式推进,专业、快速、高效;

120天内完成产线的规划、评审、安装调试。

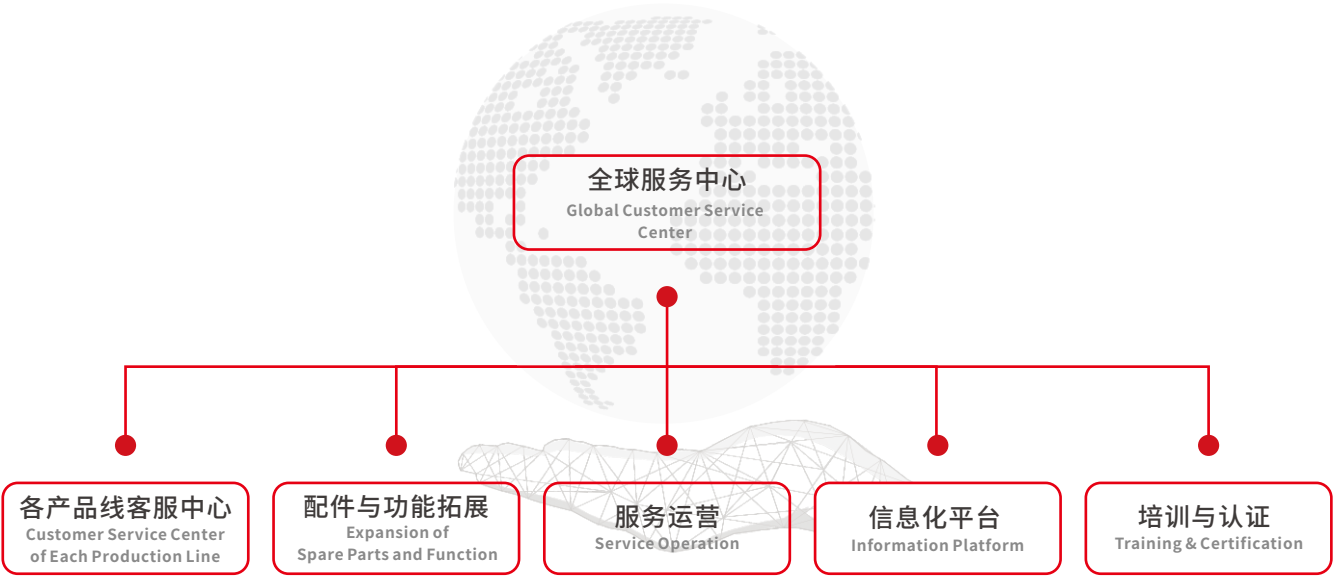
The construction cycle of short production line adopts 3+1 mode;

Different teams step forward professionally, fast and efficiently;

Complete the planning, evaluation, installation and commissioning of the production line within 120 days.

客户服务

CUSTOMER SERVICE



企业文化核心理念

CORE CONCEPTS OF OUR CULTURE

服务全球 装备世界
Worldwide Service
全球多中心化服务体系
定位全球，及时服务
Global multicenter service system
World-oriented and timely service

全球服务认证体系
Global Service Certification System
全球培训与认证体系搭建
标准化培训，国际化认证
Building a global training and certification system
Standardized training and international certification

信息化平台
Information Platform
设备信息化，服务信息化
全球服务尽在掌握
Equipment and service informatization
Mastering Global Services

全生命周期管理
Full Lifecycle Management
设备全生命周期维保，功能拓展
配件全生命周期管理
Full lifecycle maintenance and functional expansion
Full lifecycle management of accessories

服务基因
Service Principle
服务流程项目责任制
建立以客户为中心的文化
超越客户预期
Project responsibility system of service process
Establish a customer-oriented culture to surpasses customer expectations

大数据分析
Big Data Analysis
服务模型化，服务质量数据化
大数据分析，精准服务
Service modeling, service quality digitalization
Big data analysis and precise services

企业使命 Our Mission	帮助客户卓越，成就奋斗者梦想！ To make our customers more outstanding and achieve the dreams of the strivers!
企业愿景 Our Vision	创造全球最领先的新能源装备，帮助我们的客户更卓越！ Create the world's most leading new energy equipment to make our customers more outstanding!
核心价值观 Core Values	精诚合作 共享双赢 求真务实 开放创新 Collaboration, win-win sharing, pragmatism, and open innovation.
企业精神 Our Spirit	不断自我批判，永远追求卓越 Continuous optimization, always striving for excellence.
企业定位 Our Positioning	全球化锂电智能装备解决方案服务商 A global lithium battery intelligent equipment solution service provider.
经营理念 Business Philosophy	研发全球领先的技术，生产卓越品质的产品，打造强大的服务能力。 Create cutting-edge technology, produce superior products, and build an unrivalled service capacity.
管理理念 Management Philosophy	务实、简单、高效、有序 Pragmatic, simple, efficient and well-organized.
人才理念 Talent Philosophy	任人唯贤，贡献为先 Appoint people on their merits and contribute first.
研发理念 R&D Philosophy	要么不做，要做就做世界第一 Either do nothing or be the world's best.