

OUR VISION

Become a world-class provider of lithium battery equipment and electronic vaping products

.....

OUR MISSION

Help our customers achieve excellence and fulfill the dreams of the strivershe strivers!

.....

CORE VALUES

Integrity, Self-cultivation, Pragmatism, Innovation, Rigor, Transparency



-LinkedIn-

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: <https://en.yhwins.com>

202505 ©





19 years

Industry experience



In 2015

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



4

Manufacturing bases



20 Billion
(CNY)

Production capacity



84000m²

Plant area



5+

Take the lead in formulating
Industry standards



2000+

Authorized patents



220+

Invention patents

COMPANY OVERVIEW

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 are applied in multiple fields such as power, energy storage and customer batteries. Yinghe is one of a few companies worldwide that is able to provide intelligent digital factory solutions for lithium batteries.

Powered by 10 subsidiaries and 4 manufacturing 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 "Help our customers achieve excellence", we continue to build and improve the global multi-center localized service system to our clients, 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 development to become a world-class provider of lithium battery equipment and electronic vaping products under 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!

DEVELOPMENT MILESTONES

- **2006** In June 2006, Yinghe Technology was founded, focusing on the research & development, production, and sales of automatic equipment.
- **2009**
2010 In December 2009, Yinghe was awarded the title of "National High-tech Enterprise" .
In December 2010, Yinghe officially launched the GEM IPO plan.
- **2011**
2014 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**
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 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**
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** 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 Winding Integrated Machine, catching up with the technology of Japan and Korea.
- **2021**
2022 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 sheet 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**
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 intergrated machine were launched.
In December 2023, the industry-leading all-solid-state batteries coating machine by wet process were launched.
- **2024**
In 2024, YH launched the "73" strategy and the operation strategy of "1 center, 2 focuses, 3 innovations" to build a world-class enterprise.
In June 2024, YH won the "Second Prize of the National Science and Technology Progress Award".YH introduced a series of new products, including solid-state battery equipment with dry and wet processes, the Super-E dual-layer coating machine, and the Super-S ultra-high-speed notching and stacking integrated machine.



Huizhou Dongjiang Industrial Park



Huizhou Huinan Industrial Park



Jiangxi Yichun Industrial Park



Shenzhen Baoan Industrial Park



Workshop View



Workshop View



Workshop View

INDUSTRIAL LAYOUT



Yinghe Technology



Electrode Making Process

- Coating
- Calendering
- Slitting



Cell Making Process

- Prismatic winding machine
- Laser notching
- Laser cleaning machine
- Laser notching and winding integrated machine



Cell Making and Assembly Line

- Notching machine
- Stacking machine
- Notching and stacking integrated machine
- Cylindrical, Prismatic, Short Blade assembly line
- Filling machine



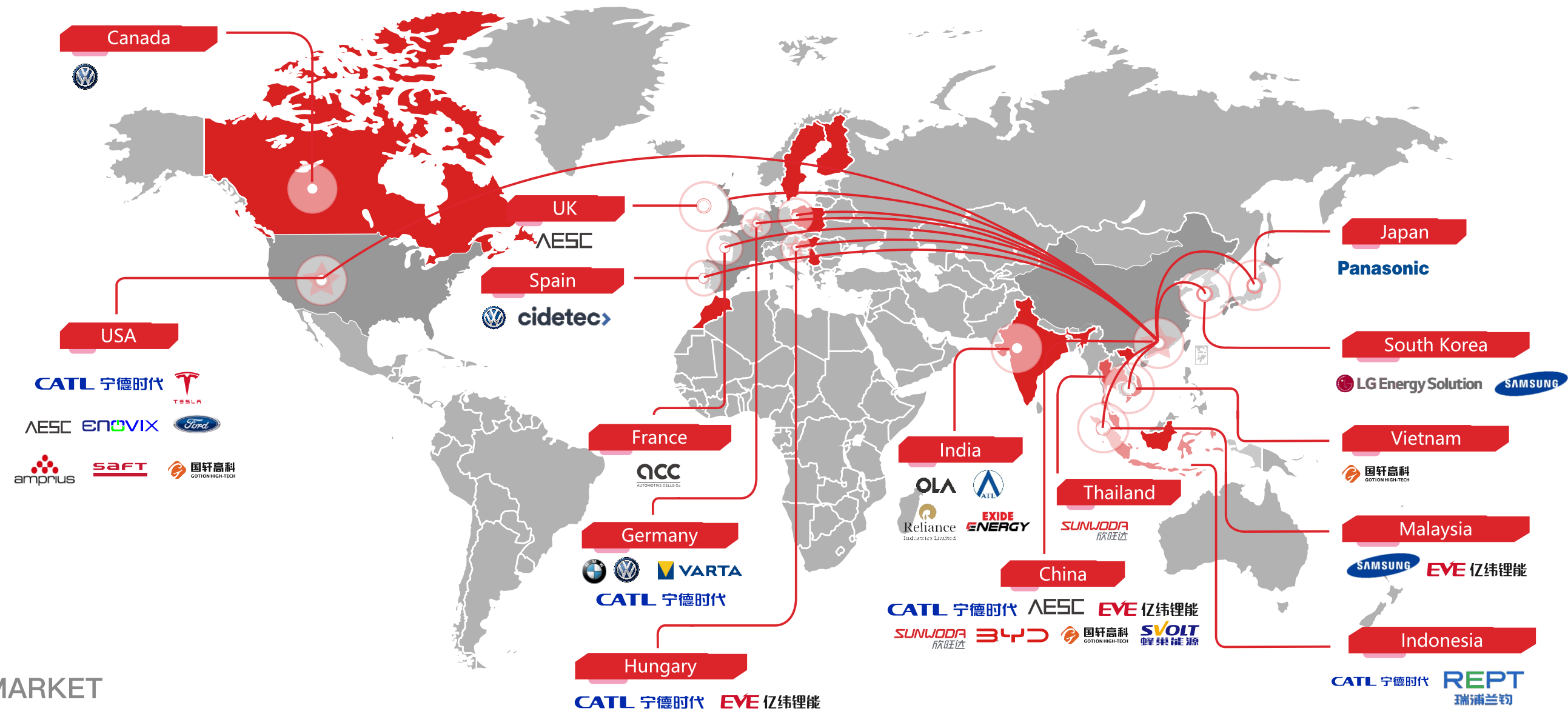
- Cylindrical Winding Machine

- 4680 laser notching and winding integrated machine
- Button cell winding machine



Solid-state Battery Equipment Solutions

- Solid-state Wet Coating Equipment
- Solid-state Electrolyte Transfer Printing Equipment
- Solid-state Dry Dispersion & Fiberization Integrated Equipment
- Solid-state Dry Film Formation & Composite Integrated Equipment



MARKET LAYOUT

With first-class quality and service guarantee, Yinghe's products occupy the domestic China market and overseas market to provide customers with one-stop intelligent production lines solutions of lithium battery.

Domestic customers: CATL, BYD, Gotion, EVE, CALB, SVOLT, SUNWODA, FARASIS, ATL, etc.
Overseas customers: LG Energy Solution, Samsung, Honda, Panasonic, Volkswagen, Germany BMW, ACC, ENOVIX, AESC etc.

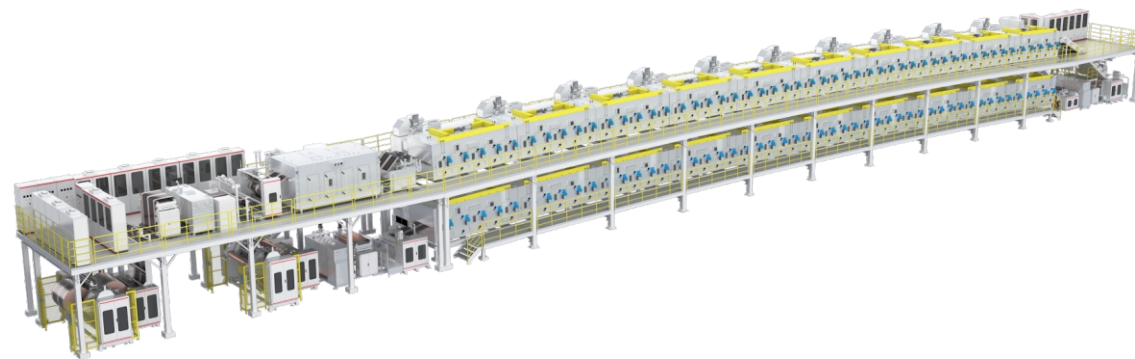


COATING SERIES



Single/Double-Layer Coating Machine

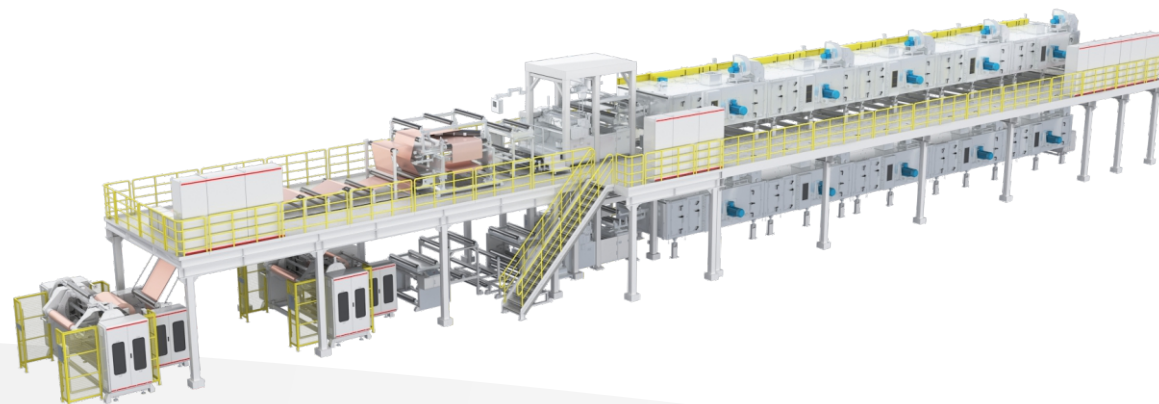
Roller surface width: Max. 1.6m
Coating speed: Max. 120m/min



Double-layer Super-E Coating Machine

Roller surface width: Max. 1.8m
Coating speed: Max. 120m/min

Layout upgrading: A/B coating unit integrated design
- high efficient clean control and ergonomics
Compact structure: E-type new path design
- save more than 35% of the whole length of the machine



CALENDERING & SLITTING MACHINE SERIES



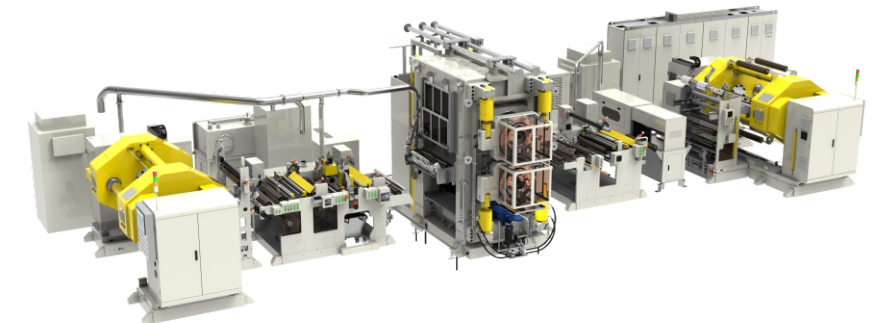
Calendering and Slitting Integrated Machine

Roller surface width: Max. 1.8m
Production speed: Max. 120m/min



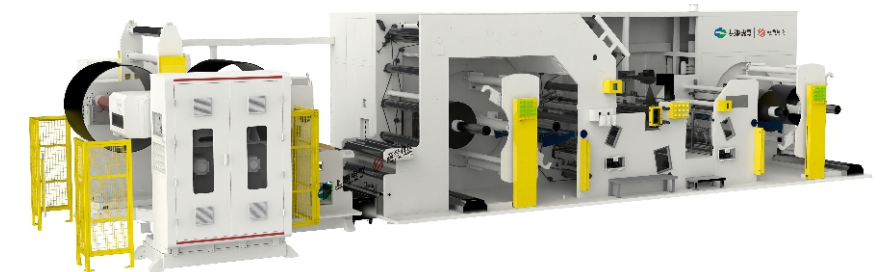
Gap Coating and Calendering Machine

Roller surface width: Max. 900mm
Production speed: Max. 50m/min



Slitting Machine

Roller surface width: 1800mm
Production speed: Max. 120m/min



PRISMATIC WINDING & LASER SERIES



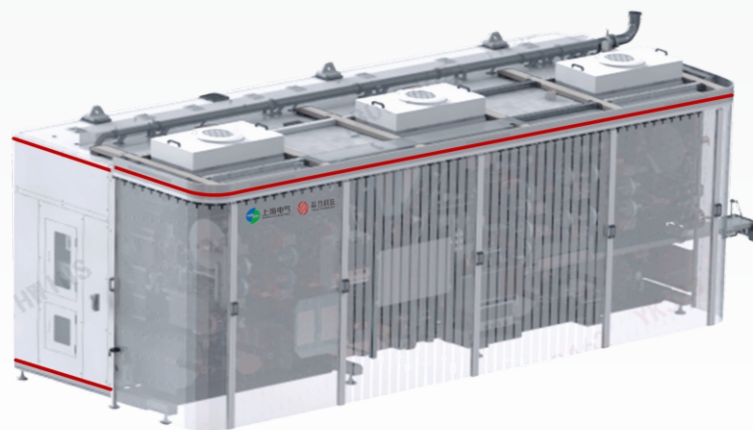
Prismatic Power Battery Laser and Winding Integrated Machine

Efficiency: 6PPM (electrode length 16m)
Linear speed: Max. 3000mm/s



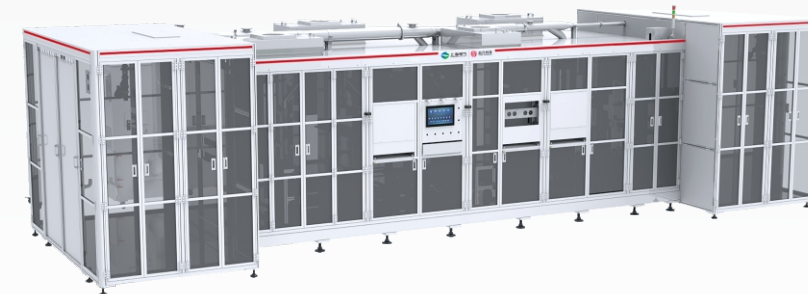
Laser Notching and Cutting Integrated Machine

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



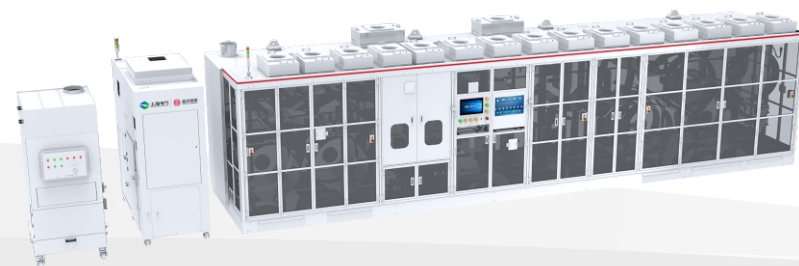
3C Cell Sheet Forming & Winding Integrated Machine

Machinical speed: Constant line speed $\geq 600\text{mm/s}$
Efficiency: $> 21\text{PPM}$
Yield rate: 99.5%



Multi-station Laser Cleaning Machine

Efficiency: 9-15PPM (Whole piece)
Pass rate: $\geq 99\%$



Laser Notching and Slitting Integrated Machine

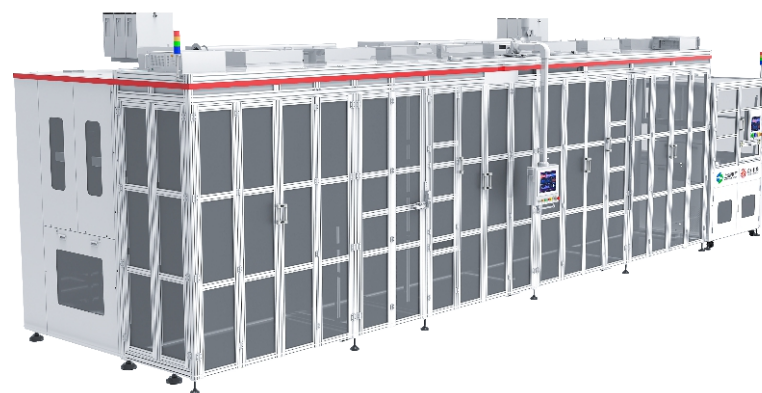
Linear speed: Max. 120m/min
Electrode thickness specification: 60-250 μm



Laser Perforating Machine

Spacing accuracy: $\pm 0.1\text{mm}$
Efficiency: Dual laser $\geq 25\text{min}$
Pass rate: $\geq 99.5\%$

CYLINDRICAL WINDING SERIES



46 Series Laser Notching and Winding Integrated Machine

The first exclusive global launch&mass production, 24PPM, with a yield rate of 99.8% without shutdown for 24 hours!



21700 High-speed Winding Machine

Global exclusive development, 40PPM, with a yield rate of 99.8% without shutdown for 24 hours!



Button Cell Winding Machine

Domestic exclusive initial launch, 15PPM, with a yield rate of 99.5%!

NOTCHING & STACKING MACHINE SERIES



Ultra-high Speed Multi-station Notching and Stacking Machine- 0.39s/pcs

Compatible with three or four workstations
Only 0.1s per piece



Laser Notching and Stacking Integrated Machine - 0.39s/pcs

Only 0.1s per piece



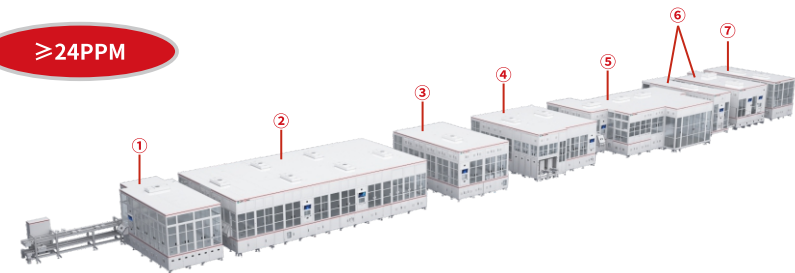
Notching and Stacking Machine (590 Series) - 0.6s/pcs

Compatible with three or four workstations
Only 0.15s per piece

ASSEMBLY LINE SERIES

Automatic Assembly Line for Aluminum Can Batteries

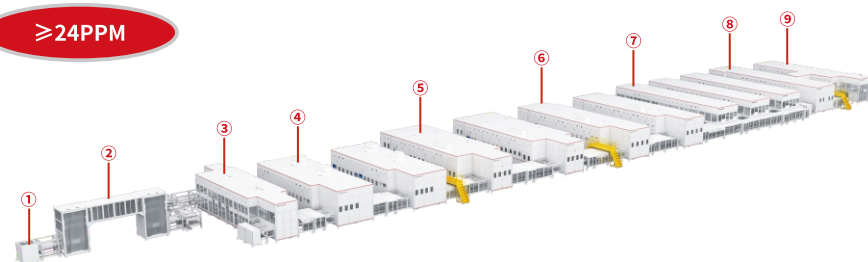
≥24PPM



- | | |
|---|--|
| ① Hot pressing machine | ⑤ Mylar wrapping and can insertion |
| ② X-Ray detector of JR and pre-welding integrated machine | ⑥ Top cover pre-welding and full-welding |
| ③ Ultra-sonic welding machine | ⑦ 1st leak test |
| ④ Connector laser welding cell combination machine | |

Sunken-type Minimalist Short-blade Cell Assembly Line

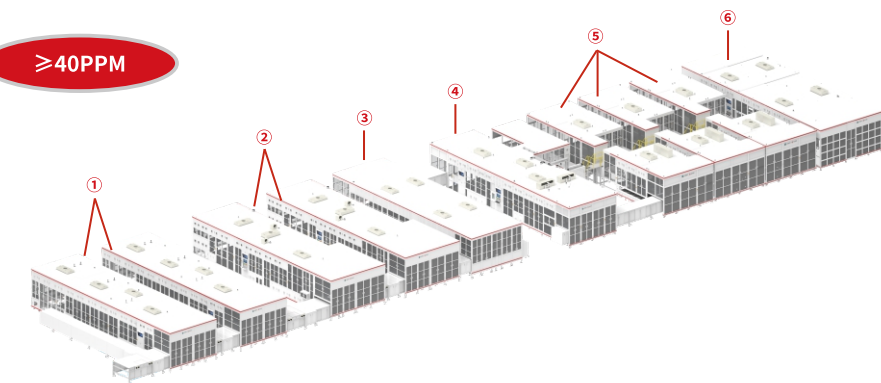
≥24PPM



- | | |
|---|---------------------------------------|
| ① Tab pre-welding machine | ⑥ Top cover periphery welding machine |
| ② Anode tab laser welding machine | ⑦ 1st leak test |
| ③ Mylar wrapping machine | ⑧ Plug welding (3 stages) |
| ④ Inserting & pre-welding machine | ⑨ 2nd leak test |
| ⑤ Cathode tab laser welding & Cathode pre-welding machine | |

Prismatic Battery Assembly Line(M6T)

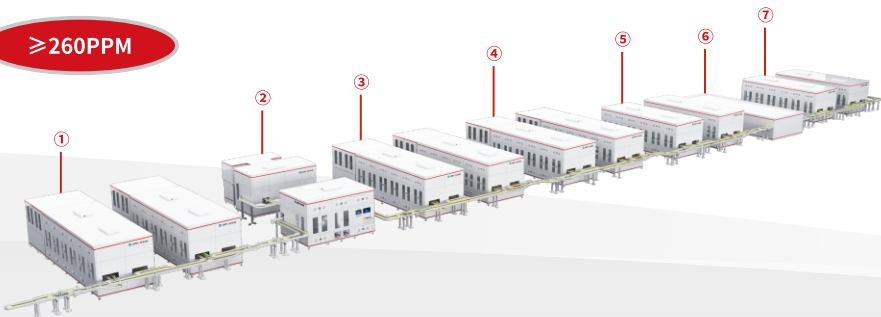
≥40PPM



- | | |
|---------------------------------------|--------------------------------|
| ① Ultrasonic flat tab welding machine | ⑤ Top cover welding machine |
| ② Top cover & tab welding machine | ⑥ 1st helium leak test machine |
| ④ Cell tape wrapping machine | |
| ③ Can insertion spot welding machine | |

Automatic Assembly Line for Cylindrical Batteries

≥260PPM



- | | |
|---|---------------------------------------|
| ① Cathode collecting plate welding / wrapping machine | ④ Anode cover sealing welding machine |
| ② Can insertion / pole column welding machine | ⑤ Leak test |
| ③ Anode collecting plate welding / inside welding machine | ⑥ Baking / filling |
| | ⑦ Plug welding Machine |

Advantages of Assembly Line



ADVANCED PROCESS



- 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

ADVANCED EFFICIENCY



- Whole line efficiency: 24PPM (52148100)
- Orderly linkage of each process
- The manipulators cooperate perfectly to complete the pole core assembly

ADVANCED LAYOUT



- 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

ADVANCED ENVIRONMENT



- 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 class cleanliness

ADVANCED MODULE



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

ADVANCED COMPATIBILITY



- 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

ADVANCED DUST CONTROL



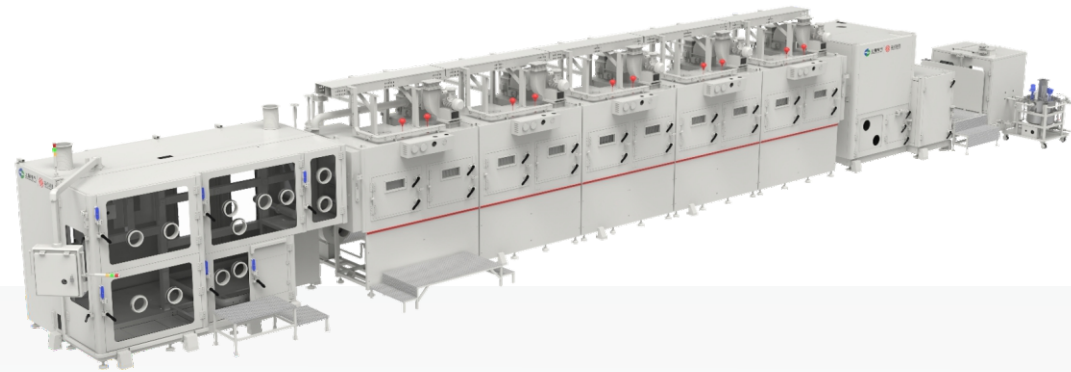
- Dust-free cell transportation
- Dust-free connection process
- 32 sets of professional dust-removal mechanism

SOLID-STATE BATTERY EQUIPMENT SOLUTIONS



Solid-state Wet Coating Equipment

Coating Width: 250mm
Coating Speed: Max.10m/min



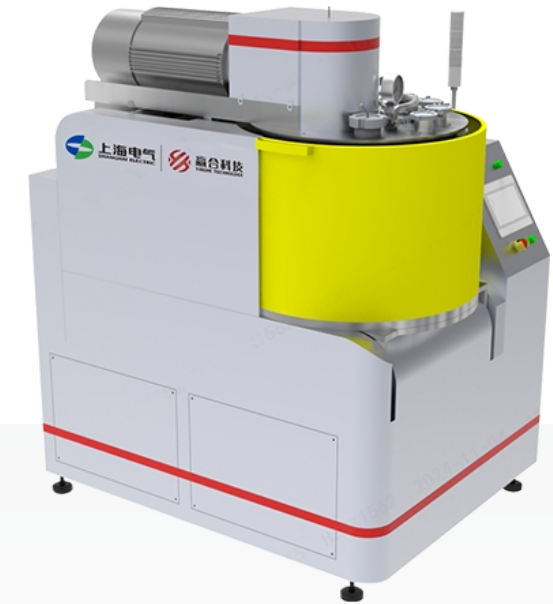
Solid-state Electrolyte Transfer Printing Equipment

Roller surface width: Max.1050mm
Production speed: Max.60m/min



Solid-state Dry Dispersion & Fiberization Integrated Equipment

Roll specifications: 970mm
Production efficiency: Max. 300L/h

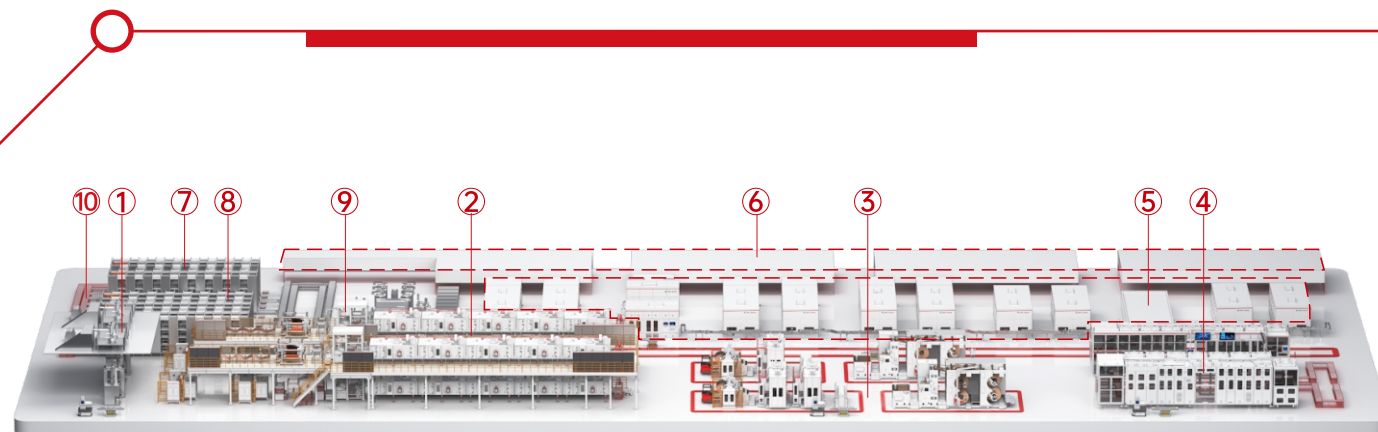


Solid-state Dry Film Formation & Composite Integrated Equipment

Mechanical speed : Max.120m/min
Rolling thickness accuracy : $\pm 2 \mu m$



WHOLE LINE SOLUTION



- | | |
|--|------------------------------------|
| ① Slurry System | ⑥ Cell baking/ 1st filling |
| ② Coating | ⑦ Formation/Grading |
| ③ Calendaring & Slitting | ⑧ HT aging/ RT aging |
| ④ Notching & stacking / Notching & Winding | ⑨ 2nd filling/ Sealing pin welding |
| ⑤ Cell assembly line | ⑩ Wrapping / EOL |

ADVANTAGES

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 utilization.
- Energy savings of over **20%** - Adopt new technologies to reduce equipment energy consumption and improve equipment efficiency
- Saving **50%** of personnel - new technology, whole line layout, logistics optimization.
- Modular design to ensure high stability of the equipment, can quickly respond to a variety of non-standard customer needs, low-risk.
- Improved cleanliness: Each equipment can be specially designed with a clean micro-environment, and each equipment is equipped with a comprehensive dust removal and iron removal device to improve product yield.

STRENGTH

In 2014, we proposed and delivered a complete turnkey line solution; currently we have more than 40 complete turnkey line cooperation experiences.

EQUIPMENT

We professionally customize MES systems that are highly adaptable to the lithium - battery production industry. We comprehensively open up the information interaction channels among production elements such as people, machines, materials, methods, and the environment, enabling enterprises to easily achieve automated and intelligent production control, and leading the industry to a new and highly efficient production mode.

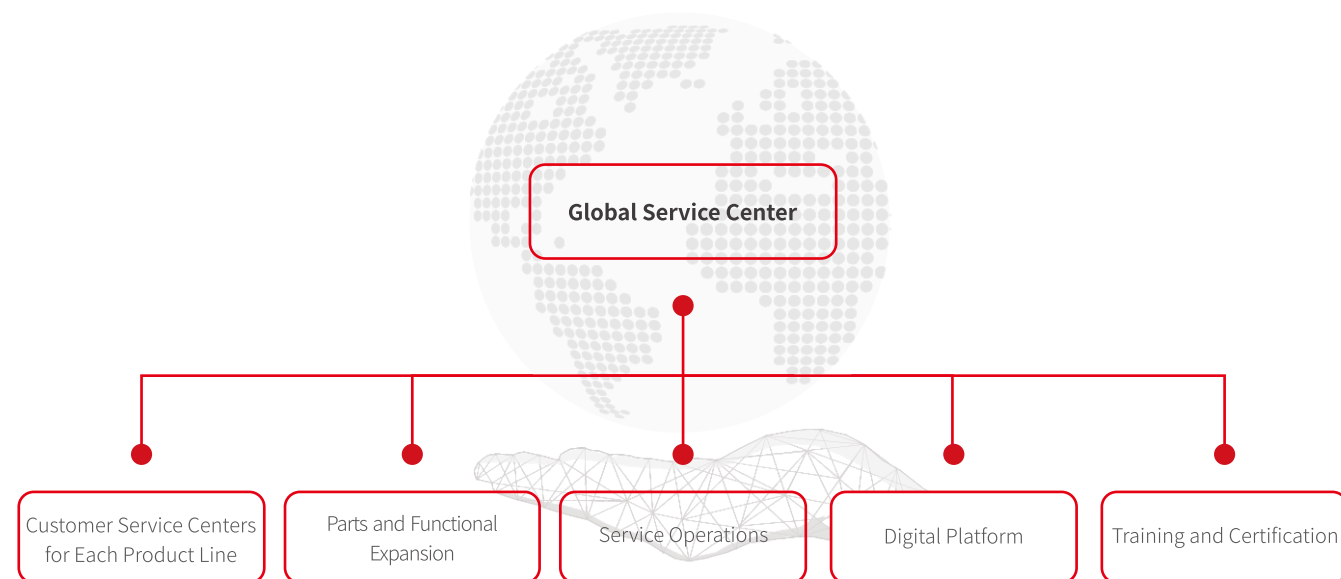
Meanwhile, we also provide overall planning solutions. We skillfully embed advanced equipment such as logistics lines, logistics vehicles, manipulators, stackers, and robots between various production processes to ensure seamless connection of the production process, greatly improving production efficiency and creating greater production capacity value for enterprises.

Moreover, for the complex transfer links in the lithium - battery production process, from various raw materials (such as electrode sheets, jelly roll (JR) , etc.) to semi - finished battery cells and then to finished battery cells, we have carefully designed a series of exclusive fixtures, carriers, and material boxes. These protective transfer devices can comprehensively protect products, effectively reduce the risk of product loss during the production process, significantly improve product quality, and establish an excellent product reputation for enterprises.

DELIVERY

The production line has a short delivery lead time, with FAT completed within 6 months after PO and delivery completed within 8 months;
Build a professional team for each project and advance it step by step, professionally, quickly and efficiently;
With rich experience in overseas project delivery, we can avoid risks of overseas project in advance;

CUSTOMER SERVICE



Serving the Globe, Equipping the World

Global Multi-Center Service System
Global Positioning, Timely Service



Full Lifecycle Management

Equipment full lifecycle maintenance and functional expansion
Parts full lifecycle management



Global Service Certification System

Global training and certification system setup
Standardized training, international certification



Service DNA

Service process project accountability system
Establishing a customer-centric culture
Exceeding customer expectations



Digital Platform

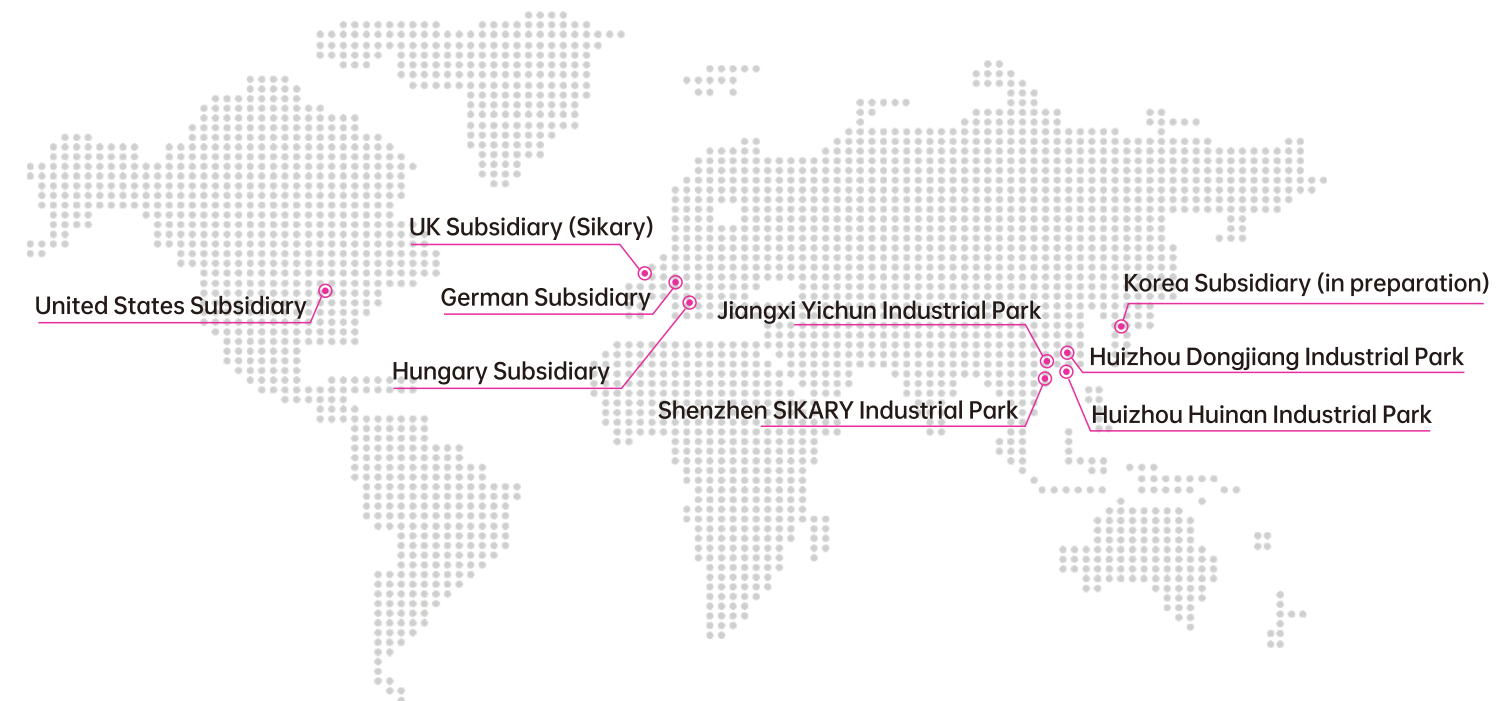
Equipment Informationization, Service Informationization
Global Service at Fingertips



Big Data Analytics

Service Modeling, Service Quality Datafication
Big Data Analytics, Precise Service

GLOBAL SUBSIDIARIES LAYOUT



OUR CULTURE

Vision

Become a world-class provider of lithium battery equipment and electronic vaping products

Mission

Help our customers achieve excellence and fulfill the dreams of the strivers

Strategic Directions

Internationalize business, premiumize products and digitize management processes

Corporate Core Values

Integrity, Self-cultivation, Pragmatism, Innovation, Rigor, Transparency

Talent Concept

Appoint by Merit, Orient by Contribution

R&D Philosophy

Think out of the box