



## INTEGRATED SOLUTION FOR INTELLIGENT EQUIPMENT IN NEW ENERGY INDUSTRY

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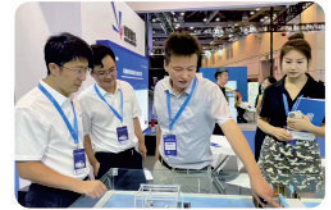
Huiyao Laser Technology Luoyang Co., Ltd.(AKA Yao Laser)  
晖耀激光科技(洛阳)有限公司

# YAO LASER

 [www.yaolaser.com](http://www.yaolaser.com)



## ABOUT YAO LASER

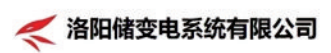
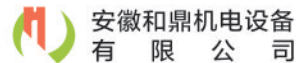


Huiyao Laser Technology (Luoyang) Co., Ltd. (AKA Yao Laser) is a leading manufacturer of laser equipment, dedicated to providing innovative customized solutions for **Battery Module PACK Production Lines** across various industries. Since its establishment in 2019, Yao Laser has been at the forefront of advancing laser technology and applications, offering customers high-quality, high-performance laser equipment, and automated production lines for battery module PACK. The company has built a highly skilled research and development team, committed to delivering comprehensive intelligent equipment for new energy sources, including **Battery Module Automation Line, Battery PACK Production Line, Battery Structural Part Welding Equipment, Battery Cell Assembly Line**. Since its inception, Yao Laser has established deep collaborations with renowned domestic and international companies, including **AVIC Lithium Battery, State Energy Group, Xuji Group, Sainty Power, Tianhui Lithium Battery, New Taihang, Haguangyu, and Beehive Energy**.

The company covers an area of **10,800 Square Meters** and boasts multiple automated and semi-automated production lines, as well as advanced processing equipment. It holds **ISO9001 Quality Management System Certification, ISO14001 Environmental Management System Certification, and ISO45001 Occupational Health and Safety Management Certification**. Yao Laser has also secured 37 utility model patents, invention patents, and software copyrights. The company actively promotes standardized production practices, enhancing product quality management and after-sales service to provide reliable products and excellent service to its customers.



## COOPERATIVE CLIENTS





# COMPANY QUALIFICATION





## CORE TECHNOLOGY

INTEGRATED SOLUTION FOR INTELLIGENT EQUIPMENT IN NEW ENERGY INDUSTRY



Laser Welding Technology



Quality Control Technology



Intelligent Control System



Flexible Module Design Capability



Data Management and Traceability Capabilities



System Integration and Collaborative Capabilities



Continuous Innovation and R&D Capabilities

## AFTER-SALE SERVICE

### Warranty and Guarantee

Your satisfaction is our top priority. All single-station equipment and production lines sold by Yao Laser come with a one-year free warranty and a lifetime quality guarantee, covering any manufacturing defects or malfunctions. If you encounter any issues, rest assured, we will promptly address them, ensuring your peace of mind.

### Quality Assurance

At Yao Laser, we place the highest priority on delivering products of the utmost quality. Before any sale, our Battery Modules and PACKs undergo rigorous testing and inspection to ensure they meet the industry's highest standards. We are committed to providing you with reliable and safe products that exceed your expectations.

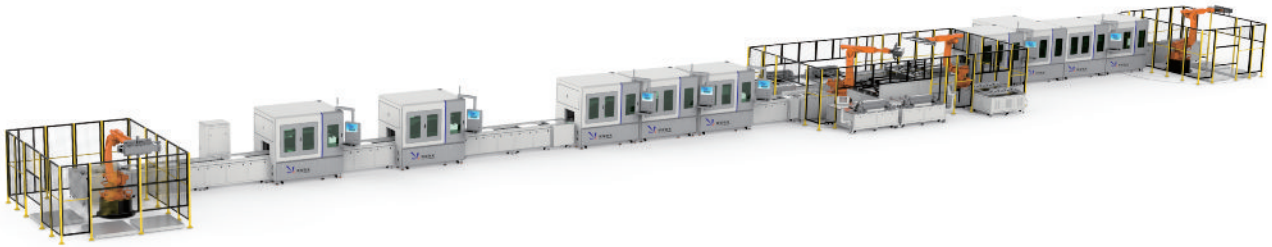
### Customer Support

Our team of experts is here to assist you through the whole process. Whether you have questions about product features, compatibility, or any other concerns, we offer personalized consult services to ensure you make the right choice.

## PROCESS DISPLAY



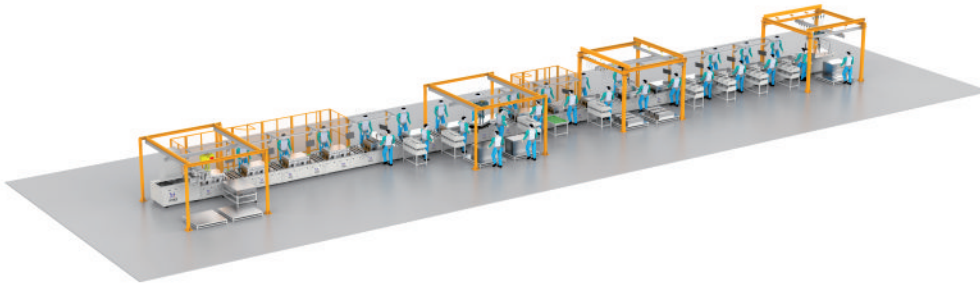
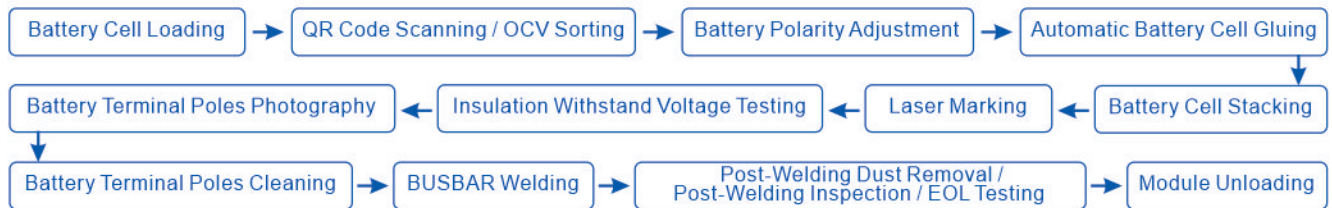
# BUSINESS CATEGORIES



## Prismatic Battery Module Automation Assembly Line

### Technical Parameters

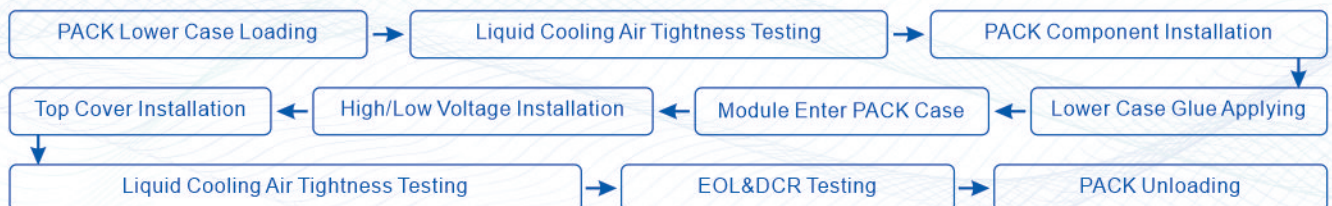
- Production Line Efficiency:  $\geq 10$ PPM
- Final Yield:  $\geq 99.8\%$
- Equipment Failure Rate:  $\leq 2\%$



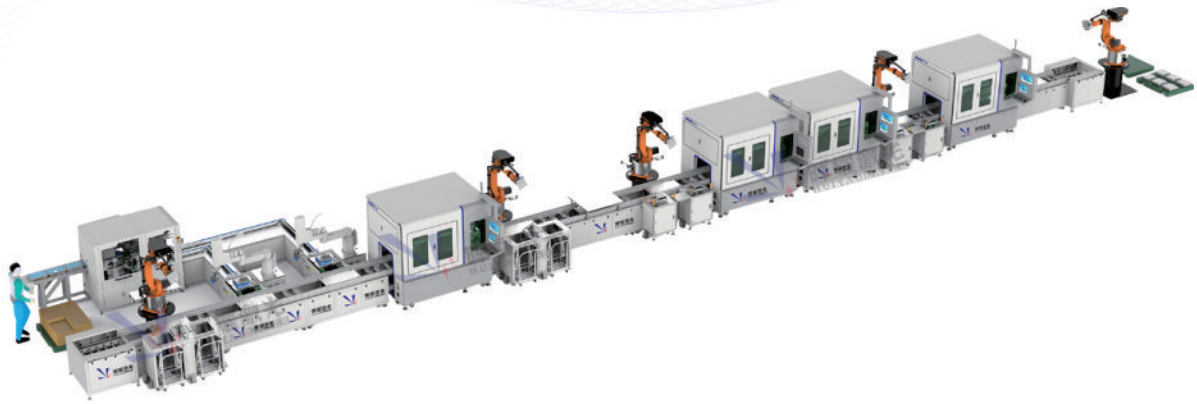
## Prismatic Battery PACK Assembly Line

### Technical Parameters

- Final Yield:  $\geq 99.8\%$
- Equipment Failure Rate:  $\leq 2\%$
- Battery Cell Size Range: T40-90, W150-220, H100-220
- Battery Blueprint: 280Ah Battery Cell



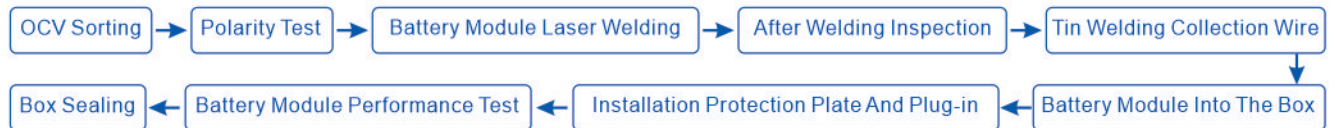




## Cylindrical Battery Module PACK Automatic Assembly Line

### Technical Parameters

- Applicable cell models: 21700, 26700 and 32700
- production efficiency:  $\geq 33$ PPM
- Equipment failure rate:  $\leq 2\%$
- Final yield:  $\geq 99.8\%$



## Pouch Battery Module PACK Automatic Assembly Line

### Technical Parameters

- Production efficiency:  $\geq 8$ PPM
- Equipment failure rate:  $\leq 2\%$
- Final yield:  $\geq 99.8\%$



## Prismatic Aluminum Shell Battery Cell Production Line

Flexible battery cell assembly line, capable of rapid changeover and compatible with various types of prismatic battery cells. Yield rate  $\geq 99.9\%$ , failure rate  $\leq 2\%$ , and all production line equipment can be customized according to specific requirements.

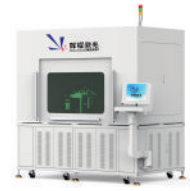
⊙ Battery Cell Hot Pressing HIPOT Equipment



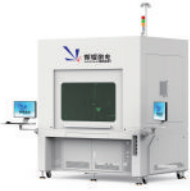
⊙ Battery Cell Tab Cutting Equipment



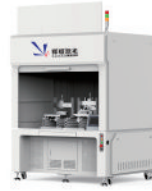
⊙ Battery Cell Ultrasonic Welding Equipment



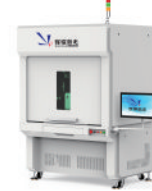
⊙ Battery Cell Adapter Plate Welding Equipment



⊙ Battery Cell MYLAR Film Wrapping Equipment



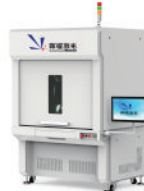
⊙ Battery Cell Top Cover Welding Equipment



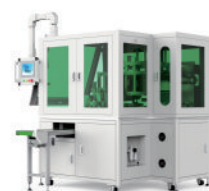
⊙ Battery Cell Helium Detector Equipment



⊙ Battery Cell Sealing Nail Welding Equipment

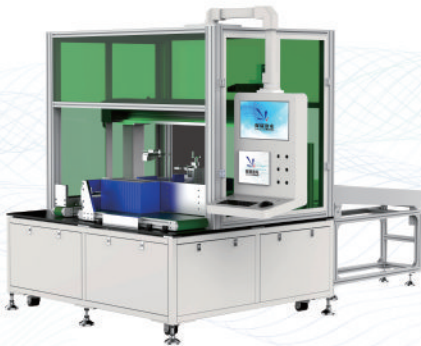


⊙ Battery Cell Blue Film Wrapping Equipment



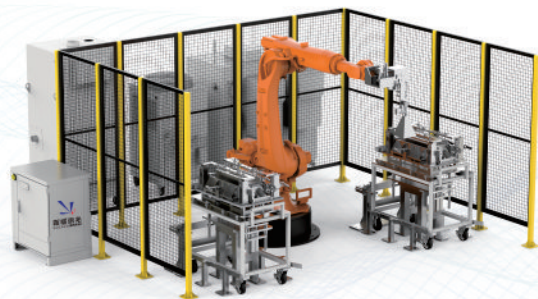
## Prismatic Battery Cell OCV Sorting Equipment

OCV(Open Circuit Voltage) sorting equipment measures battery cell voltage and internal resistance to identify and separate defective cells, ensuring high-quality and safe battery packs.



## Prismatic Battery Robot Dual-Station Welding Equipment

Robot dual-station welding equipment revolutionizes manufacturing with its advanced robotics for precise and efficient welding. Featuring dual stations, it maximizes productivity while ensuring consistent weld quality.





## Battery Structural Part Assembly Automation Line

This line is an integrated automatic line consisting of explosion-proof valve welding equipment, cover plate component assembly welding equipment, air tightness testing equipment, and impedance performance testing equipment. The line adopts automatic loading with auxiliary machines to reduce manual involvement, greatly improving production efficiency.

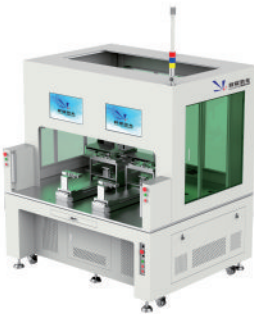


④ Dual-Station Terminal Poles Welding Equipment

④ Six-Station Rotary Enclosed Welding Equipment

④ Explosion-Proof Valves Automatic Welding Equipment

④ Dual-Station Rotary Enclosed Welding Equipment



## Battery Module Laser Welding Workstation

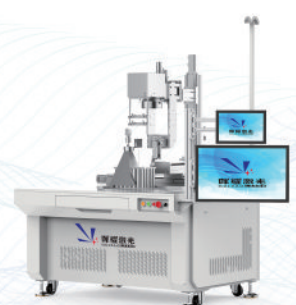
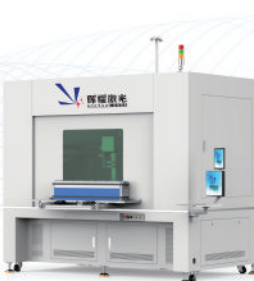
Precision-engineered for seamless welds and rapid production, it's the ultimate solution for elevating your manufacturing process. Experience unmatched efficiency and reliability – upgrade to our Laser Welding Workstation now.

④ Enclosed Gantry Welding Workstation

④ Pouch Module Welding Workstation

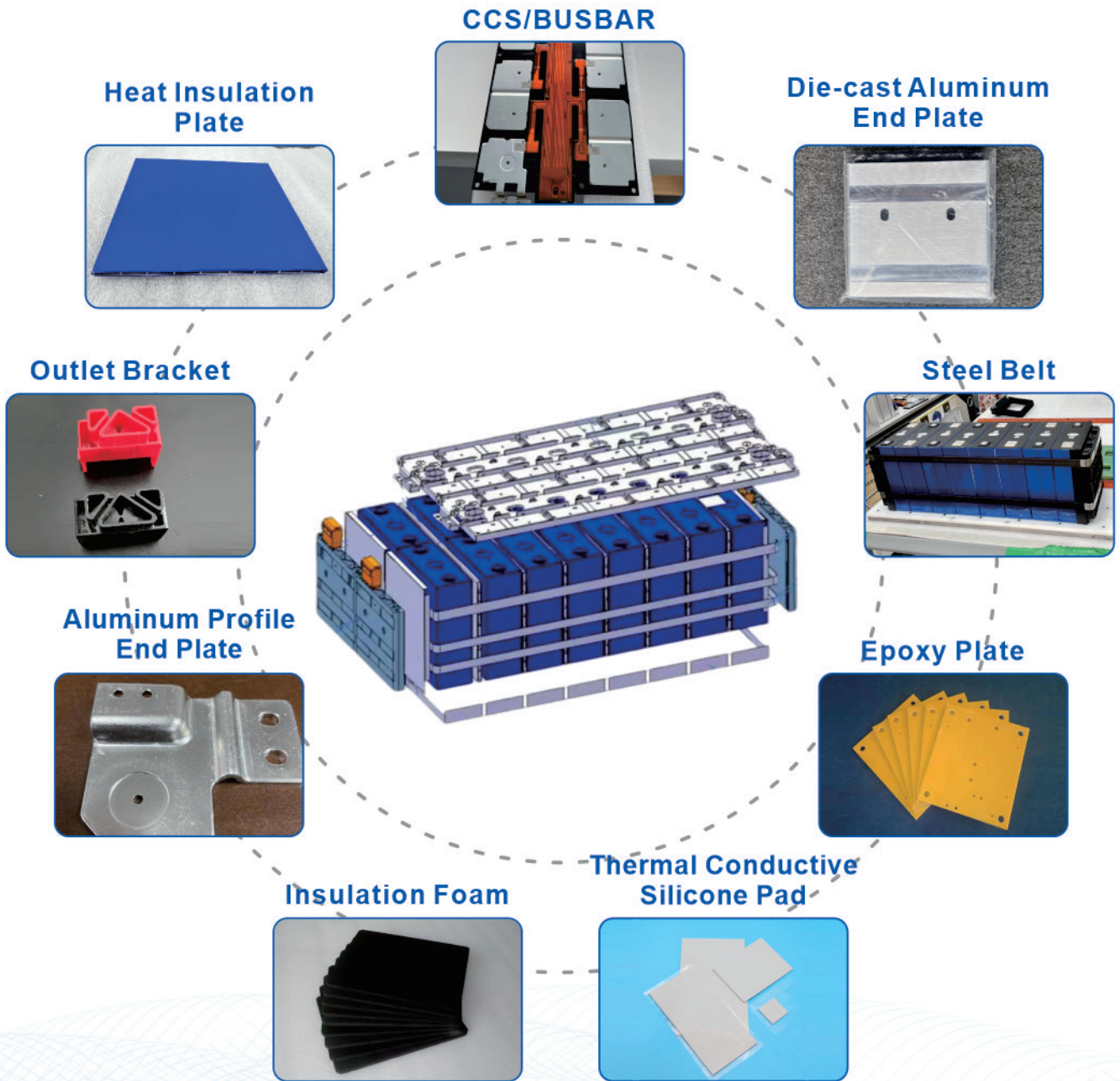
④ Dual-Station Gantry Welding Workstation

④ Cylindrical Module Welding Workstation



# MODULE PACK ACCESSORIES

Can Be Customized According To The Battery Model





# CUSTOMER CASES





# CUSTOMER CASES







For More Information, Please Scan the QR Code by Camera to Reaching the Yao Laser Official Website



Mail: [info@huiyaolaser.com](mailto:info@huiyaolaser.com)



WhatsApp Business: YaoLaser



YouTube: YaoLaserTechnology



Facebook: Yao Laser(YaoLaser Tech)



TikTok: Yaolaserwelding



LinkedIn: YaoLaser Technology Co.,Ltd



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