



Custom Lithium Ion Battery Assembly Line For Cylindrical Cell Pouch Cell And Coin Cell

Our Product Introduction

for more products please visit us on lithiumbatterymachine.com

Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MRBEST-Cylindrical Cell, MRBEST-Pouch Cell, MRBEST-Coin Cell
- Minimum Order Quantity: 1 Set
- Price: Negotiable
- Packaging Details: Standard Export Wooden Packing
- Delivery Time: 7-20 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 500 sets per month



Product Specification

- Product Name: Battery Assembly Line
- Application: For Battery Research
- Suitable Battery: Cylindrical Cell, Pouch Cell, Coin Cell
- Size: Accepted Customized Size
- Manufacturer: YES
- Direct Factory: With Competitive Price
- High Light: Battery Manufacturing Machine, Battery Making Machine Price, Lithium Battery Making Machine
- Highlight: Pouch Cell Lithium Ion Battery Assembly Line, Coin Cell Lithium Ion Battery Assembly Line



More Images



Product Description



Lithium ion Battery Assembly Line Making Machine For Cylindrical Cell Pouch Cell and Coin Cell

Shenzhen Meirui Zhida Technology Co., Ltd. is a Manufacturer specializing in a Complete Set of Lithium Ion Battery Research Equipment. MRBEST has been committed to providing customers with comprehensive Battery Research and Development Equipment to meet customers' new Lithium Battery Technology and New Needs in recent years, such as Sodium Batteries, Solid-state Battery and Semi-solid-state Battery Equipment, special process requirements such as dry process, 4680 large cylindrical battery equipment requirements etc. Create One-Stop Service for Battery Research Equipment for customers and provide Professional Technical Guidance and Support.

MRBEST related products include: Vacuum Mixers, Planetary Vacuum Mixers, Lab Transfer Coating Machine, Automatic Film Coating Machine, Electric Vertical Roller Machine, Pneumatic Die-cutting Machines, Electric Sealing Machines, Vacuum Pre-sealing machine, Secondary Vacuum Sealing Machine, Coin Cell battery Sealing Machine, Battery Winding Machine, Pouch Cell Sealing Machine, Ultrasonic Spot Welding Machine, Glove Box with Purification System etc. MRBEST products have been sold at home and abroad. Our main customer include: Universities, Research Institutes, Battery Positive and Negative Material Companies, Battery Cell Manufacturers, and New Energy EV Battery Manufacturers etc.

Li-ion/ Na-ion Battery

Do you want to know how to make Lithium ion Battery?With our Battery Technology, Battery Lab Line and Battery Pilot Line, we make it easy for you.Contact MRBEST for more information.

The manufacture of the lithium-ion battery cell comprises the three main process steps of Electrode Manufacturing, Cell Assembly and Cell Finishing.

- The electrode manufacturing and cell finishing process steps are largely independent of the cell type, while cell assembly distinguishes between pouch and cylindrical cells as well as prismatic cells.
- Regardless of the cell type, the smallest unit of each lithium-ion cell consists of two electrodes and the separator which separates the electrodes from each other. Between them is the ion-conducting electrolyte.

MRBEST provide full set of Lithium Battery Equipments

Electrode Sheet Preparation:

- **Vacuum Mixer** for Cathode/Anode Materials Mixing
- **Coating machine** to coat paste onto current collector to create **electrode**.
- **Rolling Press Machine** (*calendar*) to roll the electrode to required thickness.

Cell Assembly

- **Slitting/Cutting machine** to slit electrode sheet to strip
- **Battery Winding Machine** to wind strips layers in form of Anode + Separator + Cathode + Separator + ...
- **Electrode Die Cutter** to cut out electrode with Lead
- **Battery Stacking Machine** to stack layers in form of Anode + Separator + Cathode + Separator + ...
- **Welding machine** to first weld current collector and then tab together
- **Short-circuit Detector** to test if the cell has a short-circuit
- **Vacuum Oven** to dry the cell if no short-circuit

Case Forming and Sealing

- **Pouch Cell Case Forming Machine** to punch cup-shape and gas receiver on Aluminum lamination sheet and then place cell into the cup
- **Top & Side Heat Sealing Machine** to seal the top and shorter side after double-up
- **Glove Box** provide a Moisture and Oxygen free environment
- **Electrolyte Filling System** to fill electrolyte in Vacuum Glove Box
- **Electrolyte Diffusion and Degassing Chamber** by removing air from the electrolyte
- **Vacuum Pre-sealing Machine** to seal longer side (the side with gas receiver) under vacuum after electrolyte is filled
- **Battery Analyzer** to charge/discharge the cell for battery formation and drive the unnecessary gas caused by electrode chemical reaction into gas receiver
- **Pouch Cell Final Sealing Machine** cutting of the gas receiver and vacuum sealing machine for final sealing on the cutting edge under vacuum conditions with glove box

Battery Testing

- **Battery Analyzer** to test the pouch cell's performance
- **Battery Impedance Tester** to measure battery's internal resistance

With full set of lithium battery technology,
We specialize in battery laboratory line with semi-auto or full automatic equipment.



				
Vacuum Mixer	Coating Machine	Roller Press Machine	Vacuum Drying Oven	Electrode Die Cutter
	Pouch Cell Assembly Machine Stacking Process 			
Final Sealing Machine				Stacking Machine
				
Battery Testing Machine				Ultrasonic Welder
				
Vacuum Pre-sealing	Electrolyte Diffusion	Glove Box	Top & Side Sealing Machine	Pouch Cell Case Forming Machine

		
Planetary Vacuum Mixer	Automatic Film Coating Machine	Rolling Press Machine
	Coin Cell Lab Equipment 	
Coin Cell Punching Machine		Vacuum Drying Oven
		
Glove Box	Coin Cell Crimper	Battery Testing Machine



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