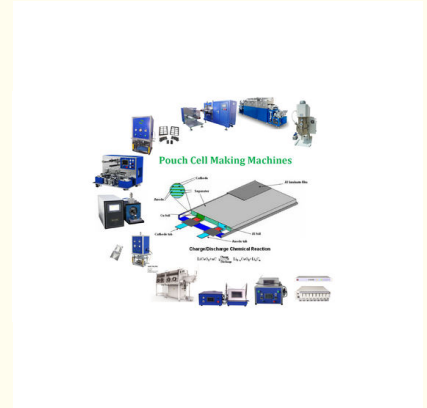


Lithium Ion Battery Manufacturing Machines

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MRBEST-Pouch 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: Lithium Ion Battery Manufacturing Machines
- Application: For Battery Research
- Suitable Battery: Pouch 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: **Lithium Ion Battery Manufacturing Machines, Li Ion Battery Manufacturing Machines**

Product Description



Lithium Ion Battery Manufacturing Machines For Pouch Cell Making

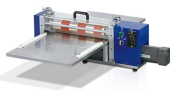
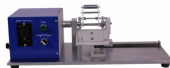
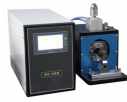


The below listing is step-by-step guide of how to produce a Li-ion Pouch Cell using MRBEST equipment & materials. Lithium ion Pouch Cell Assembly for Pouch Battery indicated has various sizes and specifications, therefore can be customised to meet your requirements.

PROCESS 1: Electrode Sheet Preparation





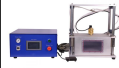



Process Flow	Recommend Equipment
Furnace to sinter raw active material (Cathode & Anode)	
Milling Machine to mill material to smaller particles	
Mixer to mix active, conductive and binder material into paste within vacuum	
Coater to coat paste onto current collector; attach heater to dry	
Rolling Press (Calendar) to roll the electrode to proper thickness	
Choose method	Stacking OR Winding
All consumables & materials are available e.g. Al Film, Metallic Strip Terminal, Tabs	

PROCESS 2: Cell Assembly



Procedure	Process Flow	Recommend Equipment
Stacking	6: Electrode Die Machine to cut out electrode with lead	
	7: Stacking Machine to stack layers in form of Anode + Separator + Cathode + Separator + ...	

Winding	6: Slitting Machine to slit electrode sheet to strip	
	7: Winding Machine to wind strips layers in form of Anode + Separator + Cathode + Separator +	
	8: Ultrasonic Welding Machine to first weld current collector and then tab together	
	9: Short-Circuit Detector to test if the cell has a short-circuit	
	10: Vacuum Oven to dry the cell if no short-circuit	

PROCESS 3: Case Formation & Sealing

Process Flow	Recommend Equipment
11: Cup Forming Machine to punch cup-shape and gas receiver on Aluminium lamination sheet and then place cell into the cup	
12: Top & Side Heat Sealing Machine to seal the top and shorter side after double-up	
Glove Box:	
13: Electrolyte Filling System to fill electrolyte in vacuum/glove box	
14: De-gas by removing air from the electrolyte	
15: Vacuum Primary-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.	
17: Cutting off the gas receiver and Vacuum Sealing Machine for Final Sealing on the cutting edge under vacuum conditions within glove box	

PROCESS 4: Battery Testing

19: Battery Analyzer to test the pouch cell's performance	
20: Battery Impedance Tester to measure battery's internal resistance	

Our Advantages

1. Steady and high quality ! -cause we are a manufacturer of Lithium Battery Equipment, and we only focus on one thing that is make professional Lithium ion Battery Equipment for customer around the world.
2. Friendly use! all MRBEST Battery Equipment with teach manual and support live teaching via media.
3. Reliable factory! My factory located in Shenzhen city of China, support factory visit and video factory visit .
4. 1 year warranty plus lifetime technical support.
5. All the parts use on machine, in stock forever.
6. Powerful technical support, NOT TRADE COMPANY! We are professional on Lithium Battery Equipment, the chief engineer team have more than 20 years experience on lithium battery area, so we can easy do diagnose on machine if customer have question.
7. 100% PATIENCE to all customers! Our patience not only before consult order, also after-sale service, one by one .



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