

Polymer Pouch Cell Assembly Line Customized For Lithium Ion Battery Manufacturing

Our Product Introduction

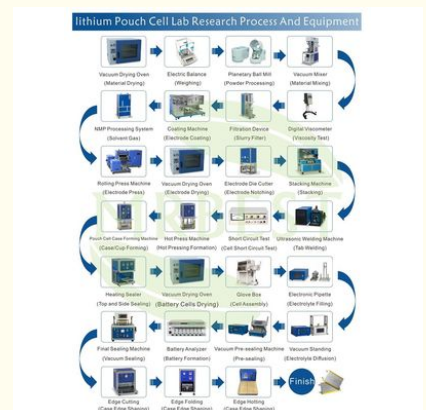
Basic Information

- 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

- Name: Pouch Cell Assembly
- Type: Polymer/Pouch Cell
- Application: Lithium, Sodium And Solid-state Battery
- After-sales Service Provided: Video Technical Support, Online Support
- Size: Can Be Customized
- Direct Factory: With Competitive Price
- Highlight: **Polymer Pouch Cell Assembly Line, Pouch Cell Assembly Customized**








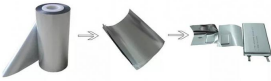


MRBEST Pouch Cell Assembly Line for Lithium Ion Battery Manufacturing


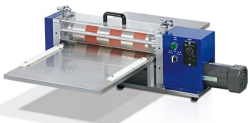
The below listing is step-by-step guide of how to produce a Li-ion Pouch Cell using MRBEST equipment & materials. Lithium ion Pouch Cell Assembly for Pouch Battery indicated has various sizes and specifications, therefore can be customized to meet your requirements.

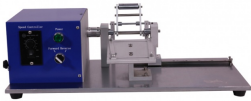
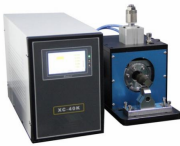


PROCESS 1: Electrode Sheet Preparation

Process Flow	Recommend Equipment
1. Furnace to sinter raw active material (Cathode & Anode)	
2. Milling Machine to mill material to smaller particles	




3. Mixer to mix active, conductive and binder material into paste within vacuum	
4. Coater to coat paste onto current collector; attach heater to dry	
5. 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	


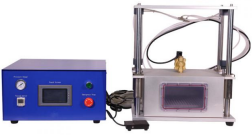



PROCESS 2: Cell Assembly

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:	 <p>2400/750/900 High Temp. Dry Room Controlled Atmosphere Low Temp. RT function (optional)</p>

<p>13: Electrolyte Filling System to fill electrolyte in vacuum/glove box</p>	
<p>14: Electrolyte Diffusion and Degassing Chamber for De-gas by removing air from the electrolyte</p>	
<p>15: Vacuum Pre-Sealing Machine to seal longer side (the side with gas receiver) under vacuum after electrolyte is filled</p>	
<p>16. Battery Analyzer to Charge/Discharge the cell for battery formation and drive the unnecessary gas caused by electrode chemical reaction into gas receiver.</p>	
<p>17: Cutting off the gas receiver and Vacuum Sealing Machine for final sealing on the cutting edge under vacuum conditions within glove box</p>	

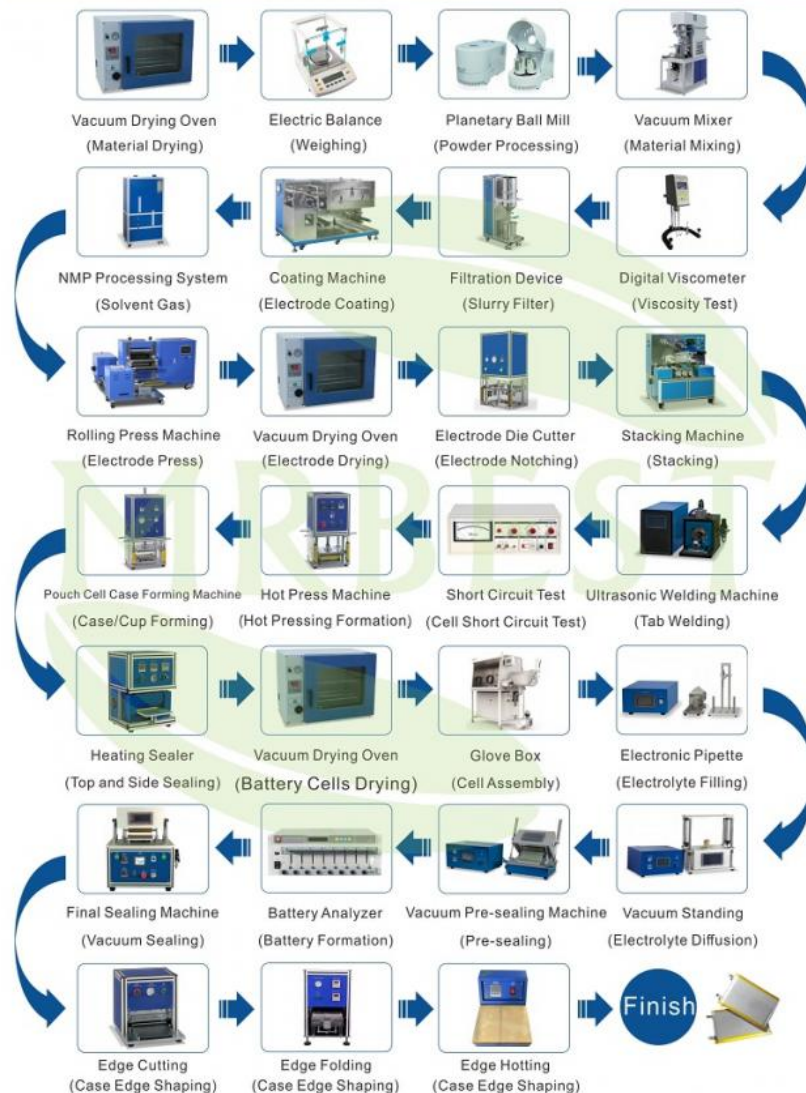
PROCESS 4: Battery Testing

<p>19: Battery Analyzer to test the pouch cell's performance</p>	
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20: **Battery Impedance Tester** to measure battery's internal resistance



lithium Pouch Cell Lab Research Process And Equipment





Shenzhen Meirui Zhida Technology Co., Ltd.



+86 19866156608



tina@szmrbest.com



lithiumbatteryemachine.com

104 Building 6, Second Industrial Zone, Shanmen Community, Yanluo Street, Baoan District, Shenzhen China