



Automatic Battery Calendering Machine Electrode Hot Calender Machine

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MR-JS100
- 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 Calendering Machine
- Roller: Dia 96 X W100mm, Other Width Available
- Roller Hardness: >HRC62
- Pressing Thickness: 0~2mm Adjustable
- Feeding Speed: Max 10mm/s Adjustable
- Heating Temperature: RT~ 120 Adjustable digital Display
- Working Voltage: AC110/220V Optional Upon Request
- Power: 720W
- Highlight: Automatic Battery Calendering Machine,
Electrode Battery Calendering Machine,
Automatic Electrode Calendering Machine

Product Description

Automatic Battery Electrode Hot Calender Machine For Electrode Press Rolling Suppliers



Model: MR-JS100

Applications:

MR-JS100 Heat rolling press machine is a compact hot rolling press machine mainly serves for pressing samples in the lab or other applications in the material research especially for increasing active material density of the electrode in Li-Ion batteries research after coating.

The hot roller press machine has 100mm width steel rollers. Such a roller can be heated up to 130°C.

Main features

- * Heating and rolling, the temperature control of the thermostat is adjustable, and it is displayed by numbers.
- * Optional heating or no heating to work.
- * The roll has high hardness and hard chromium plating on the surface. The hardness can reach HRC62 and rust prevention.
- * Adopt the inclined block to adjust the gap of the tablet, which has good self-triviality and high adjustment precision.
- * High precision of rolling, the cylindricity of the roller is $\leq \pm 2\mu\text{m}$.
- * Vertical design, convenient for feeding and rolling of sheet material.
- * Use gear meshing rotation to achieve roll pressing.
- * The thickness and speed of the tablet can be adjusted, and the appearance is exquisite and beautiful.
- * Electric rolling, forming automation, can be forward & reverse operation.
- * Small size, easy to operate, flexible and fast to use.

Specifications:

Model	Electric Hot Rolling Press Machine MR-JS100
Rolling Size	96mm(Dia.) x 100mm(W)
Rolling Speed	5-40mm/s or 0.3 - 2.4 Meter/ Minute adjustable
Roller Gap	0-2mm adjustable Gap width gauge accuracy: $\pm 10\mu\text{m}$ (0.01mm)
Minimum Thickness	Depending on the electrode's material and thickness, typically: A 0.16mm thick electrode coated on copper can be pressed into a minimum thickness of 0.1 mm A 0.06mm thick electrode coated on copper can be pressed into a minimum thickness of 0.04 mm A 0.33mm thick silver/gold can be pressed into a minimum thickness of 0.03 mm
Heating Temperature	130°C maximum Temperature Control: Precision temperature controller with $\pm 1^\circ\text{C}$ Accuracy
Rate Voltage	AC 110 - 240V Single phase, 50/60Hz
Power Consumption	720W

Surface Hardness of Rollers	HRC60-62 Never roll materials with hardness > 50HRC (bench top rolling press is not suitable for calendering thick metals.)																		
Dimensions	500mm(L) x 220mm(W) x 320mm(H)																		
Net Weight	55kg																		
Shipping Dimensions	600*280*380mm																		
Shipping Weight	75kg																		
Application Notes	<p>Important announcement (please read this before place the order)</p> <p>The MR-JS100 roller is specially designed for battery R&D in terms of its advantages as affordable, compact and precise. Please strictly follow the instructions to operate</p> <p>Must use ace tone to clean rollers' surface after each use</p> <p>Never rolling material with hardness > 50HRC</p> <p>If the machine will be idle for a long period of time, please apply anti-rust lubricant on the rollers</p> <p>The minimum thickness of the rolled sheet should depend on the physical property of the material. Here are some results from our test:</p> <table border="1"> <thead> <tr> <th>Electrode</th><th>Size</th><th>Original thickness</th><th>Finished thickness</th></tr> </thead> <tbody> <tr> <td>LiFePO4 double sides</td><td>50mmW*260mmL</td><td>0.205mm</td><td>0.09mm</td></tr> <tr> <td>LiMn2O4 double sides</td><td>50mmW*260mmL</td><td>0.205mm</td><td>0.09mm</td></tr> <tr> <td>Copper foil + graphite (single side)</td><td>75mmW*240mmL</td><td>0.09mm</td><td>0.04mm</td></tr> </tbody> </table> <p><i>This rolling press can be used to make free-standing 2D metal nanosheets by a repeated process of folding and calendering stacked metal sheets</i></p>			Electrode	Size	Original thickness	Finished thickness	LiFePO4 double sides	50mmW*260mmL	0.205mm	0.09mm	LiMn2O4 double sides	50mmW*260mmL	0.205mm	0.09mm	Copper foil + graphite (single side)	75mmW*240mmL	0.09mm	0.04mm
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Warranty	<p>One year limited warranty with lifetime support</p> <p>Rusting and damage due to improper storage condition or maintenance are not covered by warranty</p>																		
Warnings	<p>Do not touch the surface of the rolling part of the machine when the rollers are heated up or running.</p> <p>Due to the influence of working environments, the temperature on the roller surface may be different from the display on the controller.</p> <p>Never roll materials with hardness > 50HRC</p> <p>Multi-step thickness calendering needed: While calendering the sample sheet, make each calendering decrement of 0.02mm comparing with sheet original thickness.</p> <p>Never calendering decrement over 0.02mmcomparing with original sheet thickness each calendering.</p> <p>In order to prolong the lifespan of the roller bearings, regular lubrication is recommended.</p> <p>Clean roller surface for each rolling and Use ace tone to clean and lubricate when not in use to avoid corrosion</p> <p>This rolling machine can be used under Ar gas</p> <p>It is not allowed to use any MRBEST product in any hazardous location, especially prohibit from using in Class I environments (flammable gasses & vapor)</p>																		
Standard Package	one set of hex wrenches, 2 pieces of dial gauge, 1 feeler gauge																		

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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