



## Compact Hot Roller Press Machine 100mm width For Battery Electrode

### Our Product Introduction

#### 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: Hot Roller Press 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: **Hot Roller Press Machine,  
Battery Electrode Roller Press Machine**

## Product Description

## Hot Roller Press Machine For Battery Electrode



**Model:** MR-JS100

#### Applications:

MR-JS100 Hot roller 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:

<b>Model</b>	<b>Electric Hot Rolling Press Machine MR-JS100</b>
<b>Rolling Size</b>	<b>96mm(Dia.) x 100mm(W)</b>
<b>Rolling Speed</b>	5-40mm/s or 0.3 - 2.4 Meter/ Minute adjustable
<b>Roller Gap</b>	0-2mm adjustable <b>Gap width gauge accuracy: <math>\pm 10\mu\text{m}</math> (0.01mm)</b>
<b>Minimum Thickness</b>	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
<b>Heating Temperature</b>	130°C maximum Temperature Control: Precision temperature controller with $\pm 1^\circ\text{C}$ Accuracy
<b>Rate Voltage</b>	AC 110 - 240V Single phase, 50/60Hz
<b>Power Consumption</b>	720W
<b>Surface Hardness of Rollers</b>	HRC60-62 Never roll materials with hardness > 50HRC (bench top rolling press is not suitable for calendering thick metals.)

<b>Dimensions</b>	500mm(L) x 220mm(W) x 320mm(H)		
<b>Net Weight</b>	55kg		
<b>Shipping Dimensions</b>	600*280*380mm		
<b>Shipping Weight</b>	75kg		
<b>Application Notes</b>	<p>Important announcement (please read this before place the order)</p> <p>The MR-JS100 roller is specially designed for battery R&amp;D in terms of its advantages as affordable, compact and precise. Please strictly follow the instructions to operate</p> <p>Must use alcohol to clean rollers' surface after each use</p> <p>Never rolling material with hardness &gt; 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>		
	Electrode	Size	Original thickness
	LiFePO4 double sides	50mmW*260mmL	0.205mm
	LiMn2O4 double sides	50mmW*260mmL	0.205mm
	Copper foil + graphite (single side)	75mmW*240mmL	0.09mm
	<p><i>This rolling press can be used to make free-standing 2D metal nanosheets by a repeated process of folding and calendaring stacked metal sheets</i></p>		
<b>Warranty</b>	<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>		
<b>Warnings</b>	<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><b>Never roll materials with hardness &gt; 50HRC</b></p> <p><b>Multi-step thickness calendaring needed: While calendaring the sample sheet, make each calendaring decrement of 0.02mm comparing with sheet original thickness.</b></p> <p>Never calendaring decrement over 0.02mmcomparing with original sheet thickness each calendaring.</p> <p>In order to prolong the lifespan of the roller bearings, regular lubrication is recommended.</p> <p><b>Clean roller surface for each rolling and Use alcohol to clean and lubricate when not in use to avoid corrosion</b></p> <p><b>This rolling machine can be used under Ar gas</b></p> <p><b>It is not allowed to use any MRBEST product in any hazardous location, especially prohibit from using in Class I environments (flammable gasses &amp; vapor)</b></p>		
<b>Standard Package</b>	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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