



25T Lab Battery Calendering Machine Electric Hydraulic Battery Roller Press Machine

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MR-DG300
- 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: Battery Calendering Machine
- Working Voltage: 208 - 240 VAC, 50/60Hz, Single Phase
- Max. Power Consumption: 2KW
- Rollers (one Pair): Dia. 200mm
- Roller Width: 330mm
- Effective Rolling Width: 300mm
- Highlight: Lab Battery Calendering Machine,
Electric Battery Calendering Machine,
Hydraulic Battery Roller Press Machine



More Images



Product Description



25T Laboratory Electric Hydraulic Battery Roller Press Machine Battery Calendering Machine

Model:MR-DG300

The hydraulic balanced electric roller is used for high-precision rolling of battery electrode. The equipment has good horizontal and vertical uniformity in rolling and provides high-quality rolling performance. The equipment is used for roller rolling with the pressure provided by the hydraulic system. It is suitable for occasions where the consistency of rolling force and rolling gap is required to be high. Its biggest roller press width is 300mm.

Optional Device:

Tension Controlled Winding and Unwinding Devices with the electric rolling press machine model MR-DG300C, which can roll to roll continuous Electrode calendering, suitable for battery electrode roll to roll calendering for pilot scale research work.

You can also just choose the Hydraulic roller press machine without winding and unwinding device as model MR-DG300 Or you can also add heat function to this roller press machine with Temperature up to 100C as model MR-DG300T or MR-DG300TC with winding and unwinding as continuous model.

Features

Rolling Application: rolling the battery material coated on aluminum foil or copper foil surface

Maximum opening thickness of the rolling mill: 2 mm

Rolling width: max 300 mm

- *Integral gantry frame, CNC precision machining to ensure high precision and stability;
- *The roller is made of imported cold-rolled chrome molybdenum material by heat-treated surface chrome plating and cryogenic treatment, with high internal and external hardness and good wear resistance;
- *American original imported hydraulic system, automatic control rolling pressure;
- *Patented hydraulic balanced rolling mechanism, stable pressure maintaining, good rolling uniformity in transverse and longitudinal direction;
- *Inclined block type roll gap adjustment device, surface display adjustment;

Specifications:

Model	Pressure Controlled Rolling Press Machine MR-DG300
Working Voltage	208 - 240 VAC, 50/60Hz, Single Phase
Max. Power Consumption	2KW
Rollers (one pair)	Dimensions: 200mm (Dia.) x 330mm(W) Material: Hardening Toll Steel above HRC65 Effective Rolling Width: <300mm
Press gap	0.050 - 2 mm adjustable by Dual micrometer knobs Tolerance: 0.003mm
Press Type	Hydraulic
Rolling Accuracy	±1.5um
Maximum Opening of the Rolling Press Machine	2mm
Reducer and Sub-gearbox	Combined Type

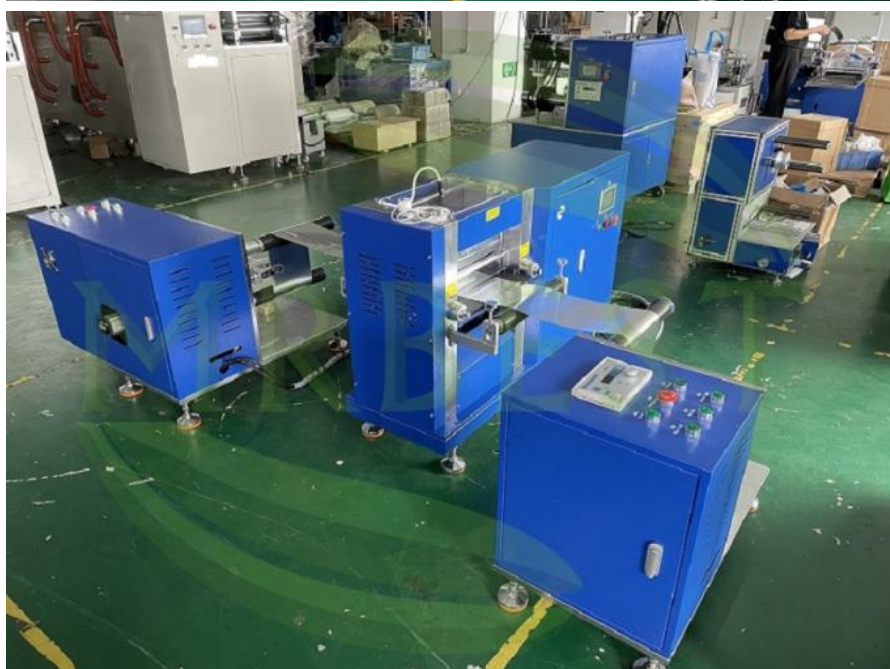
Motor & Rolling Speed	AC Frequency Conversion Motor Max.6m/min adjustable by Touch Screen Control Panel
Heating Method	Electric Heating Roller
Roll Surface Temperature Uniformity	±8
Optional Maximum Heating Temperature	100
<i>The single calendering thickness of lithium electrode sheet is 20%-30% comparing to sheet original thickness, if need more thinner, which need multi-time thickness calendering, 5um/ 1 time</i>	
Roller Surface Hardness	65 HRC Never roll materials with hardness >50HRC
Press Planeness	±0.0025mm
Pressure Control	Pressure load: 1 - 25 Tons adjustable by Touch Screen Control Panel Real time pressure displays with data recording function
Rectifying Sensor	Built in Rectifying Sensor to ensure neatly reeling electrode foil after pressing
Compressed air	0.5-0.8MPa Compressed air required (Air compressor is not included) <i>Attention: If a gas cylinder is used instead of air compressor, a two-stage pressure regulator must be installed on the gas cylinder to limit the pressure within the required working range for safe operation.</i>
Rolling Unit Dimensions	Rolling Machine: 1500mm(L) x600mm(W) x 1300mm(H)
Weight	700KG
Warranty	One-year limited warranty with lifetime support Rusting and damage due to improper storage condition or maintenance are not covered by warranty
Environment Requirement	The recommended ambient temperature is 25±3°C, humidity 30-90RH, no vibration and electromagnetic interference
Application Notes	Never roll materials with hardness >50HRC Must use ace tone to clean and dry rollers' surfaces after each use to avoid rusting Roll and press the electrode sheet multiple times to condense the slurry. Apply antitrust if machine were to be unused for a long period of time Sample testing is available upon customer's request Pre-installed Edge Position Controller (EPC) used for controlling the edge position of film in the process of winding, It is not allowed to use any MRBEST product in any hazardous location, especially prohibit from using in Class I environments (flammable gasses & vapor) .

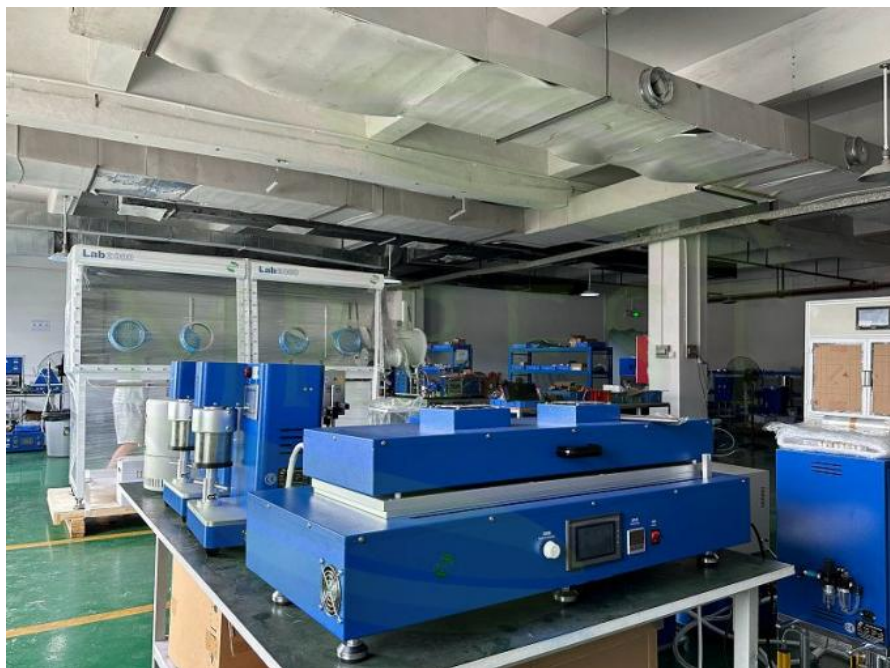
Picture Display

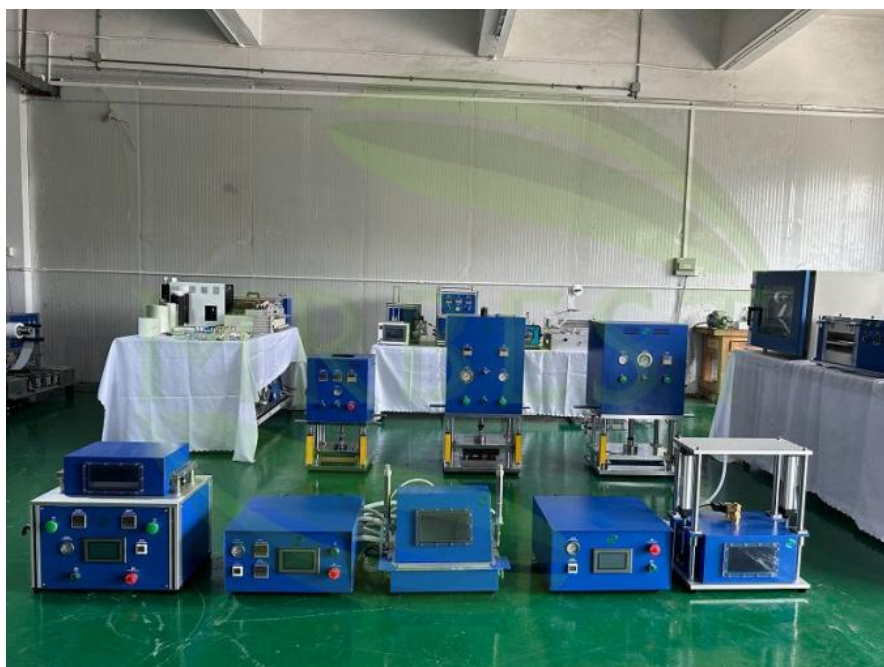




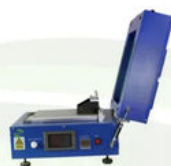
Pressure Controlled Rolling Press Machine with Winding and Unwinding System







Planetary Vacuum Mixer



Automatic Film Coating Machine



Rolling Press Machine



Coin Cell Punching Machine

Coin Cell Lab Equipment



Vacuum Drying Oven



Glove Box



Coin Cell Crimper



Battery Testing Machine



Factory Show

COMPANY PROFILE

20 Years Lithium Battery Industry Experience



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.



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