



High Precision Solid State Battery Electrode Calendering Machine

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MR-DG300C
- 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: Solid State Battery Electrode Calendering Machine
- Roller Diameter: $\phi 200\text{mm}$
- Roller Width: 330mm
- Pressing Speed: Max 6m/min
- Installation Size: L2500 X W1500 X H1300mm
- Weight: 600kg
- Winding And Unwinding System: Included
- Heating Function: Optional
- Highlight: **Solid State Battery Calendering Machine,
High Precision Battery Calendering Machine,
High Precision Electrode Calendering Machine**

Solid State Battery Electrode Calendering Machine For Battery Electrode Preparation



Model: MR-DG300C

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, 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.

Main Features:

Rolling Application: rolling the battery material coated on aluminum foil or copper foil surface
Maximum opening thickness of the rolling mill: 3 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	300mm Battery Electrode Roll To Roll Pressure Controlled Rolling Press Machine MR-DG300C
Working Voltage	208 - 240 VAC, 50/60Hz, Single Phase
Max. Power Consumption	4KW

Rollers (one pair)	Dimensions: 200mm (Dia.) x 300mm(W) Material: Hardening Tool Steel above HRC65 Effective Rolling Width: <250mm
Press gap	0.050 - 3 mm adjustable by Dual micrometer knobs Tolerance: 0.003mm
Press Type	Hydraulic
Rolling Accuracy	±2um
Maximum Opening of the Rolling Press Machine	3mm
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
The single calendaring thickness of lithium electrode sheet is 20%-30% comparing to sheet original thickness, if need more thinner, which need multi-time thickness calendaring, 5um/ 1 time	
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) 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.
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

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 .



Shenzhen Meirui Zhida Technology Co., Ltd.



+86 19866156608



tina@szmrbest.com



lithiumbatterymachine.com

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