



## Vacuum Lithium Ion Battery Slurry Mixing Machine 3.8L For Electrode Preparation

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MR-XJB-7
- 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: Vacuum Lithium Ion Battery Slurry Mixing Mixer Machine
- Application: For Powder And Liquid Mixing And Dispersing
- Adapt To The Working Viscosity Range mPas : 1000~300000 MPas
- Applicable Solid Content (%): 30~60%
- Design Total Volume: 3.8L
- Effective Volume: 1.2L-2L
- Highlight: **Lithium Ion Battery Slurry Mixing Machine, Vacuum Battery Slurry Mixing Machine**

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## Product Description

## Battery Making Machine Vacuum Lithium ion Battery Slurry Mixing Mixer Machine For Electrode Preparation



**Model:** MR-XJB -7-2L

### Product Introduction

This MR-XJB -7-2L Small Planetary Mixer is a high efficient equipment with a set of vacuum mixing and dispersion function together, it is suitable for lithium electricity experiment process for anode and cathode paste mixing process, and also other glue, chemical and other industries.

The vacuum planetary mixer is programmable in vacuum operation , raising or lowering , speed adjusting by the frequency inverter , temperature show/control , urgent stop , and so on

The vacuum planetary mixer is excellent for preparing LiCoO<sub>3</sub>, LiFePO<sub>4</sub>, Phosphors and ceramic slurry without gas bubble. And the processed material results in the better dispersion and uniformity.

### Specifications

#### Features:

Used for different powder and liquid mixing and dispersing, finally get a uniformly mixed slurry. Ideal for highly viscous processes.

Adapt to the working viscosity range(mPas): 1000~300000 mPas

Applicable solid content (%): 30~60%

### Main Parameters

Model	Vacuum Lithium ion Battery Slurry Mixing Mixer Machine MR-XJB-7-2L
<b>Lower Barrel Parts</b>	
Design total volume	3.8L
Effective volume	1.2L-2L
Container inner diameter	180mm
Container inside depth	150mm
Container material	The contact part with material is 304 stainless steel
Tempering jacket form	Single-layer jacket, for cooling or heating
Tempering jacket port	G3/8", with quick-open type union, jacket pressure resistance ≤0.4MPa
Tempering jacket circulation system	Prepared by customer Suggest the temperature of jacket inlet ≤ 8 , and the cooling water flow > 1.5 L/min
Material-discharge	No discharge port at the bottom of the barrel
Environment temperature	-10 ~120°C
Move mode	No
<b>Mixing Parts</b>	
Working frequency	5-50 hz
Mixing power	0.75 kw
Mixing blade speed	8-76 rpm
Planetary box speed	5-52 rpm
Mixing blade diameter	94 mm
Mixing blade type	Variable cross-section spiral type, 90 ° helix
Mixing blade material	304 stainless steel

<b>Mixing blade line-speed</b>	0.03-0.37 m/s
<b>Mixing blade number</b>	2 pcs
<b>Distance between mixing blades</b>	6±1 mm
<b>Distance between blade and barrel wall</b>	3+1 mm
<b>Distance between blade and barrel bottom</b>	2-3 mm
<b>Dispersing Parts</b>	
<b>Working frequency</b>	5-50 hz
<b>Dispersing power</b>	1.1 kw
<b>Dispersing speed</b>	450-4450 rpm
<b>Dispersing plate diameter</b>	60 mm
<b>Dispersing plate type</b>	Serrated
<b>Dispersing plate material</b>	304 stainless steel
<b>Dispersing line-speed</b>	1.3-13 m/s
<b>Dispersing number</b>	1 pcs
<b>Dispersing shaft number</b>	1 pcs
<b>Wall-scraping parts</b>	Scraping bracket material: 304 stainless steel Scraper board material: PTFE Wall scraping speed: consistent with the speed of the planetary box Removable: Removable design (removal of the scraping wall during high-viscosity process)
<b>Base and Lifting Parts</b>	Parts material: High rigid structure carbon steel Lifting method: hydraulic lifting Lifting guide: guide rod Lifting stroke: ≤225mm
<b>Upper Barrel Parts</b>	Upper barrel material: 304 stainless steel Powder and liquid feeding port: DN40, and hopper 1pcs Mirror port: DN40 tempered glass mirror 1pcs Spotlight: DN40 tempered glass mirror 1pcs Vacuuming port: G1/2" coupling 1pcs Exhaust port: shared with the vacuum port Digital vacuum gauge port: M14×1.5
<b>Control System</b>	Electrical cabinet: used to house low-voltage electrical components such as inverters Operation panel: used to place buttons, knobs, etc. Power supply: AC 3×380V±5 , 50Hz Control method: electric control Power control and speed regulation mode: inverter start and control Cooling method: air cooling Operation mode: panel operation, button and knob Digital temperature display: material temperature Emergency stop button: 1 pcs Alarm system: over temperature alarm, over temperature alarm shutdown, alarm shutdown Speed display: the panel displays the speed Power indicator: 1 pcs

<b>Safety System</b>	<p>Emergency stop: press the emergency stop switch, the equipment will stop immediately, and no operation can be performed</p> <p>Start low-speed mixing: mixing while lifting the barrel</p> <p>High speed dispersion: start mixing after the barrel is up to the position</p> <p>Safety lock during operation: when the machine is running, the mixing tank cannot be lowered and opened.</p> <p>Prevent the backflow of vacuum pipeline: the special design of vacuum buffer tank can effectively prevent the phenomenon of vacuum pump oil backflow to the mixing tank</p> <p>Operation failure stop: the inverter has its own overload, overcurrent, overvoltage, leakage, lack of equal protection</p> <p>The mixing barrel rises and falls: the mixing barrel can only rise after it is in place</p> <p>The vacuum in the mixing tank cannot be lowered without exhausting the vacuum (not returning to normal pressure)</p> <p>The mixing tank can only be started after the high-speed dispersion is in place.</p> <p>After the mixing tank rises to the position, it is equipped with a locking protection system to prevent the mixing tank from falling abnormally during operation.</p> <p>Dry mixing stage, while the barrel rising, the mixing blade need to mix at the same time.</p>
<b>Other Description</b>	<p>Temperature measuring probe: Pt100</p> <p>Temperature measurement method: the temperature probe is installed on the wall of the barrel to detect the temperature of the material</p> <p>Bearings for transmission components: high-speed components are imported bearings, and low-speed components are domestic bearings</p> <p>Oil seal: domestic brand, O-ring for static seal, mechanical seal for dynamic seal</p> <p>Lubricating grease: domestic brand</p> <p>Mechanical seal lubricant: imported brand</p> <p>Valves: domestic brands</p> <p>Vacuum design requirements: optional, or customer prepare a vacuum pump, pumping capacity 2L/S</p> <p>Vacuum maintenance: -0.098Mpa, keep the pressure for 24 hours &gt; -0.085Mpa, no leakage into the barrel</p> <p>Total power: &gt;3kw</p> <p>Total weight: about 550kg</p> <p>Dimensions: L1000mm×W700mm×H1835mm</p> <p>Appearance color: beige</p> <p>Floor load: 900kg/</p>

#### Complementary Condition

Item	Standard Requirement
<b>Workshop height</b>	>2M
<b>Door size</b>	Height >2M, width >1M to ensure the machine in and out.
<b>Cooling water</b>	To ensure cooling requirements, it is best to have a cooling water supply system. If heat preservation is required in winter, hot water supply is required.
<b>Warm air</b>	For cold weather, in order to prevent the hydraulic oil used for lifting from condensing, it is necessary to ensure that the indoor temperature is >20 °C to ensure the smooth lifting of the machine and the normal operation of the lubricating system.
<b>Gas source</b>	5 7 kgf/cm <sup>2</sup> , 100 l/min. Pneumatic pump drive and other situations.
<b>Other</b>	Non-corrosive gas, liquid, explosive gas.

#### Quick-wear Parts go with Machine

Name	Material	QTY
<b>Upper cover sealing ring</b>	Silica gel	1
<b>Mirror seat seal</b>	Silica gel	2
<b>Feed port gasket</b>	Silica gel	1
<b>High speed mechanical seal</b>	C+SiC	1
<b>High speed timing belt</b>	rubber	1
<b>Scraper</b>	Teflon	1
<b>Mirror glass</b>	Tempered	2

### 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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