

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

## **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1 Set
- Price:
- Packaging Details: Standard Export Wooden Packing
- Delivery Time: 7-20 working days
- Payment Terms: T/T, Western Union, MoneyGram

China

CE

MRBEST

MR-XJB-7

Negotiable

• 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 1000~300000 MPas Viscosity Range 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

## 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 LiCoO3, LiFePO4, 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	
Lower Barrel Parts		
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 customerSuggest the temperature of jacket inlet $\leq 8$ , 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	
Mixing Parts	·	
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	

Mixing blade number       2 pcs         Distance between balde and barrel       3+1 mm         Distance between blade and barrel       3+1 mm         Distance between blade and barrel       2-3 mm         Dispersing Parts       2-3 mm         Working frequency       5-50 hz         Dispersing power       1.1 kw         Dispersing power       1.1 kw         Dispersing plate diameter       60 mm         Dispersing plate type       Serrated         Dispersing plate material       304 stainless steel         Dispersing number       1 pcs         Dispersing number       1 pcs         Dispersing speed       Scraping bracket material: 30 Scraper board material: 90 Scraping speed: consist the planetary box         Wall-scraping parts       Scraping value during high-viss scraping wall during high-viss scraping wall during high-vise scraping wall during port : hydraulic liftin Lifting method: hydraulic liftin Lifting method: hydraulic liftin Lifting method: hydraulic liftin Lifting wide rod Lifting stroke: <225mm         Upper Barrel Parts       Upper barrel material: 304 strop of the bigital vacuum gauge port : Morror port: DN40 tempered gave of the bigital vacuum gauge port : Morror port: DN40 tempered gave of the bigital vacuum gauge port : Morror port: DN40 tempered gave of the bigital vacuum gauge port : Morr	al: PTFE consistent with the speed of ole design (removal of the igh-viscosity process) gid structure carbon steel ulic lifting d n 304 stainless steel ding port: DN40, and hopper pered glass mirror 1pcs ered glass mirror 1pcs ered glass mirror 1pcs
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Operation mode: panel opera Digital temperature display: n Emergency stop button: 1 pc	
Emergency stop button: 1 pc	
temperature alarm shutdown	
Speed display: the panel disp	
Power indicator: 1 pcs	

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

### **Complementary Condition**

Item	Standard Requirement
Workshop height	>2M
Door size	Height >2M, width >1M to ensure the machine in and out.
Cooling water	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.
Warm air	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.
Gas source	5 7 kgf/cm <sup>2</sup> , 100 l/min. Pneumatic pump drive and other situations.
Other	Non-corrosive gas, liquid, explosive gas.

#### **Quick-wear Parts go with Machine**

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