



XIAMEN TOB NEW ENERGY TECHNOLOGY CO., LTD.

Provide A Full Set Of Solutions For Battery Machines.

SALES tob.amy@tobmachine.com

TECH SUPPORT +86-18120715609

Search..



5 Litre Lab Planetary Vacuum Mixer Machine



TOB-XFZH05 vacuum mixer machine is mainly used for battery slurry mixing

- Brand:TOB NEW ENERGY
- Item No.:TOB-XFZH05
- Order(Moq):1set
- Payment:L/C,T/T,Western Union, Paypal
- Product Origin:China
- Shipping Port:Xiamen
- Lead Time:30days

Product Detail

5 Litre Lab Planetary Vacuum Mixer Machine For Li-ion Battery Slurry Mixing

SPECIFICATIONS

Application :

Various types of common battery powder and liquid mixing, eventually get a mixed uniform battery slurry. It is suitable for high viscosity process.

Main parameters :

Model	TOB-XFZH05
Lower Barrel Parts	
Design total volume	8L
Elective volume	2.7-5L
Container inner diameter	240mm
Container inside depth	180mm
Container material	The parts in connect with materials is 304 stainless steel
Tempering jacket form	The bottom and the barrel jacket can input water for cooling, heat preservation and heating
Tempering jacket port	G3/4", with quick opening movable joint,
	jacket withstand pressure \leq 0.4MPa
Tempering jacket circulation system	prepared by customer,
	jacket water inlet temperature \leq 8 $^{\circ}$ C,
	cooling water flow $>$ 3.5L/min
Discharge materials form	bottom of a G1-1/2" three-piece discharge ball valve, equipped with 2 "standard ISO quick connect clamp connector
Design environment temperature	-10 \sim +120 $^{\circ}$ C

Move mode	Casters move
Mixing Parts	
Working frequency	5-50hz
Mixing power	1.5kw
Mixing blade speed	10-98rpm
Planetary box rotate speed	5-50rpm
Mixing blade diameter	124mm
Mixing blade model	Variable cross-section spiral twist type, 90 ° helix
Mixing blade material	304 stainless steel
Mixing blade line speed	0.06-0.6m/s
Mixing blade number	2pcs
Dispersing Parts	
Working frequency	5-50hz
Dispersing power	2.2kw
Dispersing rotate speed	610-6100rpm
Dispersing plate diameter	70mm
Dispersing model	Serrated
Dispersing plate material	304 stainless steel
Dispersing line speed	2.2-22m/s
Dispersing number	1pcs

Dispersing shaft number	1pcs
Scratch the Wall Parts	Scratch wall bracket material : 304 stainless steel
	Scratch wall material : Teflon
	Scratch wall rotate speed : Consistent with planetary box rotate speed
	Removable or not : Removable design (Need to remove when scraping the wall on high viscosity process)
Base and Lifting Parts	Parts materials : High rigidity structural carbon steel
	Lifting way : electric
	Lifting guide : High-precision linear guide
	Lifting itinerary : $\leq 290\text{mm}$
Upper Barrel Parts	Upper barrel material : 304 stainless steel
	Power feed port : quick opening interface DN40 1pcs
	Liquid feed port : ISO standard 1/2" quick interface 1pcs
	Mirror port : DN50 tempered glass sight glass 1pcs
	Vacuumize port : G1/2 " 1pcs
	Exhaust port : together with vacuumize port
	Digital vacuum gauge port : M14×1.5 Internal thread metric tooth interface 1pcs
Control System	Electrical cabinet : Used to install low-voltage electrical components such as inverter
	Manual operation panel : For placement buttons, knobs, gauges etc
	Power supply : AC 3×380V±5%, 50Hz
	Control mode : electronic control

	Power control and speed adjustment mode: Inverter start and control
	Cooling mode : Air-cooled (wind cooling)
	Operation mode : Touch screen
	Digital temperature display gauge : material temperature
	Emergency stop button : 1pcs
	Alarm system : Over-temperature alarm, over-temperature alarm shutdown, alarm shutdown
	Speed display: Touch screen shows the speed
	Power instructions: 1pcs
Safety Chain System	Emergency stop: press the emergency stop switch, the device immediately stop, and can not do anything
	Start low-speed mixing: can lift the barrel and turning at the same time
	High-speed dispersion: barrel up in place before turning
	Safe lock in operation: When the machine is running, the mixing barrel can not be lowered, can not open the mixing barrel.
	Prevent vacuum tube backflow: special vacuum buffer tank design, can effectively prevent the vacuum pump oil back to the mixing drum phenomenon
	Stop running fault: Inverter comes with overload, overcurrent, overvoltage, leakage, lack of equal protection
	Mixing barrel lift: stirring barrel in place to rise
	Mixing barrel did not return to normal pressure can not be dropped.
	After mixing barrel rises in place and high-speed dispersion, then can be started.
	After mixing barrel rises in place, with locking protection system, to prevent while the mixing barrel rises to high place abnormal fall.

	Dry mixing stage, while the barrel rising, the stirring paddle need to rotate at the same time.
Other description	Temperature probe : Pt100
	Temperature measurement: Located of the barrel wall to detection of internal material temperature
	Transmission parts bearings : High-speed components for imported bearings, low-speed components for domestic bearings
	Oil seal : Domestic brands, O-ring for Static seal, dynamic seal using mechanical seals or skeleton oil seal
	Grease : Domestic brands
	Mechanical seal lubricants : Imported brand
	Petrol cylinder : Domestic brands
	Petrol station : Domestic brands
	Valve : Domestic brands
	acuum design quantity demand : vacuum system prepared by customer own, air exhaust volume 2L/S (2X-2)
	Vacuum hold : -0.098Mpa, holding pressure for 24 hours > -0.085Mpa, do not leak to the barrel
	Total host power : >4kw
	Total weight: about 700kg
	Dimensions : L1463mm×W610mm×H1770mm
	Appearance color : off-white
Ground bearing : 900kg/m ²	

PRODUCT DISPLAY

5L battery slurry mixer for cylindrical cell project in IIT



5L and 30L battery mixers used for Russian pouch cell and cylindrical cell projects



