











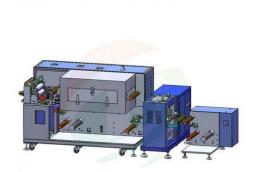
XIAMEN TOB NEW ENERGY TECHNOLOGY CO., LTD.

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Battery Electrode Intermittent Coating And Roller Press Machine

This is an intermittent battery coating and roller press machine for battery electrode preparation.

- Brand:TOB NEW ENERGY
- Item No.:TOB-TBJY300-1J
- Order(Moq):1
- Payment:L/C,T/T,Western
 Union,paypal
- Product Origin:China
- Shipping Port:xiamen
- Lead Time:30 days

Product Detail

Lithium ion Battery Electrode Intermittent Coating and Roller Press Machine

SPECIFICATIONS

This intermittent coating and roller pressing machine is a three roller transfer coating equipment, it can carry out continuous and intermittent coating, and then roll with high precision, it is used for surface coating and rolling process of various substrates. This equipment is convenient for researchers to use, and meets the requirements of coating accuracy and consistency, which is the same as the design of production. It has excellent drying effect. It is an ideal choice for the research and development of lithium-ion batteries, super capacitors, nickel batteries and other secondary batteries.

Main features

No	Features
NO	reatures
•	
1	It can switch freely to realize continuous and intermittent coating.
2	Base material tension control, stable belt running, equipped with rectifying device.
3	Hot air oven, up and down double-sided blowing, high quality drying effect.
4	Three roller transfer coating with wide coating window.
5	Comma scraper metering, with precise adjustment mechanism, to achieve high coating precision.
6	Optional solvent recovery and treatment device.
7	Roll integral gantry frame, CNC precision machining, to ensure high precision and high stability.
8	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.
9	American original imported hydraulic system, automatic control rolling pressure.
10	Patented hydraulic balanced rolling mechanism, stable pressure maintaining, good rolling uniformity in transverse and longitudinal direction.
11	Inclined block type roll gap adjustment device, surface display adjustment.
12	PLC touch screen is convenient to control parameter setting.
13	Roll continuously to avoid cutting waste.
14	The winding mechanism is equipped with an automatic deviation rectifying device to ensure that the edge of the material after rolling is neat.

Coating function

	ing function		
No	Item	Technical parameter	Remark
1	Suitable system	NCM, LFP, LCO, LMO, Graphite, Silicon	
		carbon and other systems battery coating	
2	Coating method	Continuous and intermittent coating	Transfer
			coating
			machine
3	Oven section	1m/section	
4	Coating speed	0~0.5m/min	Depending on
7	Coating Speed	0.311/111111	the drying
			state
			otato
5	Base material thickness	Al foil: 8~30um, Cu foil: 8~30um	
6	Roller width	330mm	
7	Effective coating width	≤280mm	
'	Lifective coating width	220011111	
8	Coating roller	Ф120mm	
9	Squeegee roller	Ф80mm	
10	Coating coourgov	±3um	
10	Coating accuracy	Esum	
11	Weight accuracy of	Coating center value ±1.0%	
	double-sided coating		
	(mg/cm2)		
12	Suitable for slurry	2000~12000 (mPas)	
	viscosity		
13	Single side coating dry	20-200µm	
10	thickness range	20 200 μπ	
	anomioso rango		
14	Solvent properties	Oily solvent	
		NMP(s.g=1.033,b.p=204°C)	
		Aguagua agluant	
		Aqueous solvent	
		H2O/NMP(s.g=1.000,b.p=100°C)	
15	Suitable for solid content	20~85%	
	range		

16		L≤±1, W≤±0.5	L: length
	(mm)		direction
			W: width
			direction

*Introduction to the structure of coating parts : 1. Integral unwinding, machine head mechanism :

N	Item	Technical Parameters	Remark
0			S
1.	Over roller installation structure	Steel frame firmly installed	
2.	Over roller surface treatment	Surface oxidation of metal aluminum roll	
3.	Tension control system	Automatic control of constant tension, tension range 0 ~ 50N, servo motor control	
4.	Correction method	Automatic EPC control,Stroke 50mm	
5.	Feeding Unwinding material method	The material roll is fixed by a 3-inch inflatable shaft ;	
		Unwinding single air expansion shaft	
6.	Maximum unwinding diameter	Ф250mm	
7.	Maximum load of inflatable shaft	80Kg	
8.	Number of unwinding and inflation shafts	1Pcs	
9	Main drive motor	Servo motor	
10	Roller surface treatment	Surface oxidation of metal aluminum roll	
11	Scraper structure	Double-sided comma scraper	
12	Coating roller (steel roller)	Hard chrome plating	
13	Back roller (rubber roller)	The surface is wrapped with imported EPDM	

14	Scraper intermittent height adjustment	Manual adjustment;	
15	Single head position	Installation and operation before drying tunnel	

2. Coating drying tunnel

No	Item	Technical Parameters	Remar
			k
1.	Oven	Double-layer independent heating, arranged up and down	
	structure		
2.	Oven length	1 meter / section	
3.	Material	SUS304 stainless steel	
4.	Temperatur	Divided into normal working temperature control,	
	e control	over-temperature monitoring and alarm protection control, and	
		cut off the heating main power supply; each section is	
		completely independent control	
5.	Heating	Analog signal control power heating, hot air circulation structure	
	method		
6.	Heating	6KW	
	power of		
	single		
	section		
	oven		
7.	Temperatur	Design Max150 °C, temperature difference in single section	
	e in drying	oven≤±2.5 °C	
	tunnel		
8.	Blowing	Upper and lower air blowing, common heating body for upper	
	method	and lower air chamber	
9.	Wind nozzle	The nozzle slot is slotted by a special mold	
	structure		
10.	Fan control	Contactor control	
11.	Heating	solid state relay	
	control		

12.	Fan	SUS304 stainless steel	
	material		
13.	Solvent	Optional	
	recovery		
	system		

$\hbox{*Roller winding function}:$

1	Rolling purpose	Roller press the battery material coated on	Remar
		aluminum foil or copper foil	k
2	Maximum opening thickness	2 mm	
	of rolling mill		
3	Rolling width	Max 300 mm	

$\hbox{*Roller winding parameters} :$

1	Rolling force	Max. 35T (Can be customized to increase)	Remar k
2	Mechanical speed	Max.10m/min	
3	Roll diameter:	Ф200 mm ; Material : 9Cr3Mo	
4	Roller surface hardness	>HRC65	
5	Roller surface width	330 mm	
6	Pushdown mode	Hydraulic	
7	Rolling accuracy	±2.5 um	
8	Maximum opening of rolling mill	2 mm	
9	Reducer and gear box	Modular	
10	Rolling mill motor	AC frequency conversion motor	
11	Winding	With correction function and tension control function	

*Control System :

N	Item	Technical Parameters	Remar
0			k
1	Main control system	Touch screen, PLC, servo system	
2	Operation mode	Manual, automatic, emergency stop; the whole machine can be operated before and after	
4	Alarm situation	When the device fails, the touch screen will display the corresponding correction screen	

*Hardware accuracy

No	Item	Technical Parameters	Remarks
1.	Scraper	Round jump≤ ± 1.5um, Ra0.4, straightness≤ ± 1.5um	
2.	Coating roller (steel roller)	Round jump ≤ ± 1.5um, Ra0.4 straightness≤ ± 1.5um	
3.	Glue roll	Round jump ≤10um, straightness≤10um	
4.	Roll	Round jump≤ ± 2um, Ra0.4, straightness≤ ± 2um	
5.	Deviation correction	±0.2mm	

Equipment appearance size and weight: size L3100 * W1040 * H1100mm weight: about 1300KG installed caster feet.

PRODUCT DISPLAY

