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## Semi-Automatic Lithium Battery Stacking Machine



This Semi-Automatic Lithium Battery Stacking machine is used for the stacking for pouch cell.

- Item No.:TOB-L-DP200
- Order(Moq):1 set
- Payment:L/C,T/T,Western Union,
- Product Origin:China
- Shipping Port:XIAMEN
- Lead Time:25days

## Product Detail

### Semi-Automatic Lithium Battery Stacking Machine

# SPECIFICATIONS

## 1 Equipment function description and technique process

1.1 This Semi-Automatic Lithium Battery Stacking machine is used for the stacking of pouch cell. The working process is as follows: the separator is unwinding actively, and the separator is deflected, the ferry and the tension mechanism are introduced into the platform; the platform moves the diaphragm back and forth to reciprocate to place the pole piece; the suction cup is accurately positioned and stacked on the platform;

### 1.2 Battery cell diagram



### 1.3 Equipment features

- 1) The platform adopts the sliding table structure, the cylinder moves, the positioning is accurate, and the stability is high;
- 2) The cathode and anode plates are designed separately to avoid mutual mixing of cathode and anode materials;
- 3) The separator is unwinding actively, the working tension is continuously adjustable, and the correcting device is provided;
- 4) The cathode and anode electrode carrying mechanisms are independently arranged and can be adjusted separately;
- 5) There are cathode and anode plate positioning devices, and the positioning plate is made according to the size of the electrode, and the adjustment is convenient;
- 6) The core is blanked by manual reclaiming;
- 7) The device interface is friendly, easy to operate and easy to maintain.

Model	Semi-automatic stacking machine TOB-L-DP200
Dimensions	1450mm (L) × 1100mm (W) × 1600mm (H)
Power supply	220 VAC ± 5%, single phase, 0.5 KW
Gas source	5~7 kgf/cm <sup>2</sup> , 200 l/min
Vacuum source	-0.09MPa, 100 l/min
Stacking accuracy	1) Separator alignment error ± 0.3mm; 2) Electrode alignment error ± 0.3 mm.
Warranty	One Year limited warranty with lifetime support
Remark	Non-corrosive gases, liquids, explosive gases

## 2 Material specifications and requirements for equipment

### 2.1 Specification of materials

	Materials	thickness	Width	Length(Include tab)	Exposed Length of tab
1	Cathode electrode	0.09~0.2	40~160	40~250	≤30
2	Anode electrode	0.09~0.2	40~160	40~250	≤30
	Materials	Thickness	Width	Inside diameter	Outside diameter
1	Separator	0.020~0.040	40~130	φ76.2	≤φ300

### 2.2 Requirements of materials

- 1) The electrode coating must be uniform, the thickness error is less than 0.005mm, the length and width dimension error is less than ±0.20 mm, and the wave edge is less than 1mm (subject to the pole piece positioning);
- 2) The tab must be flat and try to avoid bending;
- 3) The burr at the edge of the electrode and the tab is less than 1/3 of the thickness of the separator;
- 4) The separator must be evenly wound, the width error is less than 0.1mm, and the tower shape error is less than 0.5mm.

## 3 Stacking Process

### Battery cell specification

Unit:mm

Specification	Dimension	Specific value
Length H	40~250	
Width W	40~160	
Thickness T	5~30	
Exposed tab length P	≤30	

**Note: When the length H and width W change beyond the specification, it needs to be replaced. Corresponding specifications (standard configuration one specification).**

**PRODUCT DISPLAY**

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