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## Cylindrical Battery Semi-Automatic Winding Machine



The Battery Winding Machine is a semi-automatic winding machine used for lithium Prismatic battery precision winding for production line.

- Item No.:TOB-SJR-18650
- Order(Moq):1
- Payment:L/C,T/T,Western Union, Paypal
- Product Origin:China
- Shipping Port:XIAMEN
- Lead Time:7

## Product Detail

### Cylindrical Battery Semi-Automatic Winding Machine

## SPECIFICATIONS

### Description

The machine is mainly used for the precision winding of core of the cylinder battery. The working process is as follows: manually guide the cathode and anode electrodes into the winding part, and separated stacking with the separator, and the winding will be carried out according to the requirements of the process, automatically attaching the termination tape, and the cell will automatically feed.

### Function and Features

1. Adopt single needle counterwinding needle structure.
2. Manual lead-in electrode, automatic winding, automatic change needle, automatic tape ending tape and automatic unloading;
3. The adhesive tape adopts the horizontal paste (the tape is perpendicular to the tab), the adhesive is flat, and the adhesive position can be controlled accurately without tightening the cell; the adhesive is stable and reliable;
4. winding needle speed was adjustable;
5. Two rolls of separator active to unwinding, tension push switch control technology can adjust tension automatically during winding.
6. It has a dust removal device;
7. Separator outer pack end.
8. The cell after winding without damage, core pulling and electrode dislocation phenomenon;
9. Easy to operate,adjust and replace;

### Technique Standard

Model	TOB-SJR-18650 (21700)
Voltage	AC220V,1.5KVA,50HZ
Compressed air	0.4-0.6MPa
Productive capacity	8PCS/min
Weight	About 500kg
Size	1660mm*1300mm*1570mm(Does not include the outstretched length of the electrode.)
Winding needle specification	Φ1.5mm-Φ9mm(With one set for free, customized)
Applicable outer diameter of the cell	Φ12mm-Φ32mm
Equipment capacity	6~15 pcs/ min (according to the length/width of the electrode)

Winding precision	<p>when the electrode is guaranteed to meet the following conditions:</p> <p>The width error is less than <math>\pm 0.2\text{mm}</math>;</p> <p>The bending error of "S" is less than <math>\pm 1\text{mm}/500\text{mm}</math>;</p> <p>The tower shape error of the separator is less than <math>\pm 0.2\text{mm}</math>;</p>
The winding precision can be satisfied	<p>The alignment error of the separator is less than <math>\pm 0.5\text{mm}</math>;</p> <p>The alignment error of electrode is less than <math>\pm 0.5\text{mm}</math>;</p> <p>It can realize the negative electrode wrap the cathode electrode , the separator wrap negative electrode, and the alignment of the finished product section is <math>\pm 0.5\text{mm}</math></p>
Qualified rate	$\geq 98\%$ (excluding equipment factors)
Warranty	One Year limited warranty with lifetime support

#### Material specifications (unit: mm)

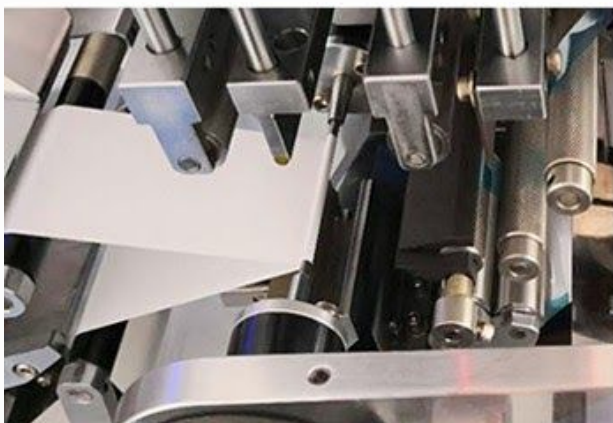
Material	Length	Width	Thickness	Inner diameter	Outer diameter
Cathode electrode	250~2500	18-63	0.1-0.2		
Anode electrode	250~2500	18-63	0.1-0.2		
Separator	Roll material	20-65	0.016-0.045	76.2	250
Termination tape	Roll material	10-50	0.01-0.035	76.2	150

Product Display









**Winding device :**  
it is composed of single head to ensure the accuracy of winding, and it is convenient to replace the winding needle.



**Shift position device :**  
for the conversion of winding station and adhesive position;



**Separator releasing device:**  
the separator roll material is active to release and air pressure regulating control;



**Electrode guide device :**  
unilateral adjustment, convenient adjustment;

