

# SONIKCELL SORTING MACHINE

## 18650 CELL AUTO-SORTING MACHINE

### Datasheet

MODEL: SCHCS 18650-20g



**Standard : Comply with the current specifications and standards of China's national equipment.**

NO.	NAME	MODEL	QTY	remark
1	Cylinder cell sorting machine	SCHCS 18650-20g	1	20 grades

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## 1 feature :

- The machine includes micro-computer, software system, precision voltage internal resistance measuring instrument, code scanning mechanism, batch feeding device, automatic grading, blanking and other devices
- According to the AC internal resistance, open circuit voltage and other parameters of lithium battery, the battery is accurately divided into groups according to various performance parameters, and the maximum number of one-time matching is 20 groups
- The collection of AC internal resistance and open circuit voltage can be automatically collected by the high-precision internal resistance instrument HIOKI 3561 of the equipment. The sorting process is automatically controlled and easy to operate.
- High degree of automation, simple operation, hopper feeding and simple operation. 8400 electric cores can be tested and assembled every hour, which can effectively improve production efficiency and reduce production cost
- The performance data of the cell tested by the system adopts the database management mode, which is stored for a long time and has strong traceability.
- The hopper feeding structure is adopted, which has no impact and scratch on the battery, and has the function of shortage reminder, which can realize uninterrupted production.
- The machine is tested by high-precision internal resistance tester
- Sorting can be divided into 20 grades, with full material reminder function
  
- The K value can be calculated according to the battery bar code and test results, and the battery can be filtered according to the range of K value

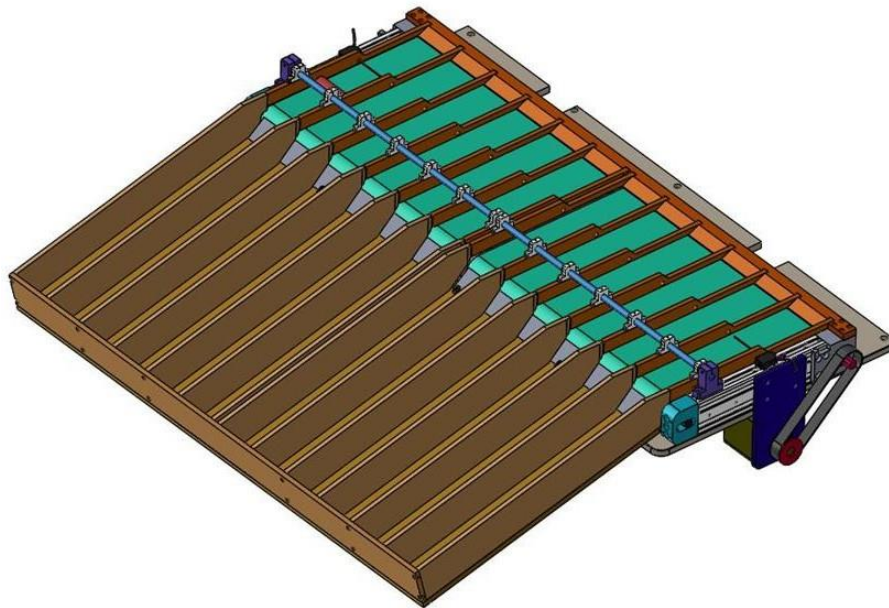
## 2, cell model and income material requests

- 1、 suitable for 18650 cells
- 2、 The positive and negative electrodes are clean and free from dirt

## 3, machine data

- Power : 220V , 0.5KW
- Gas source : 0.5 ~ 0.6 Mpa ( dry air )
- Efficiency of sorting :  $\geq 140$ PPM
- Product qualification rate :  $\geq 99.8\%$
- Equipment engagement rate :  $\geq 98\%$
- Sorting qualification rate :  $\geq 98\%$

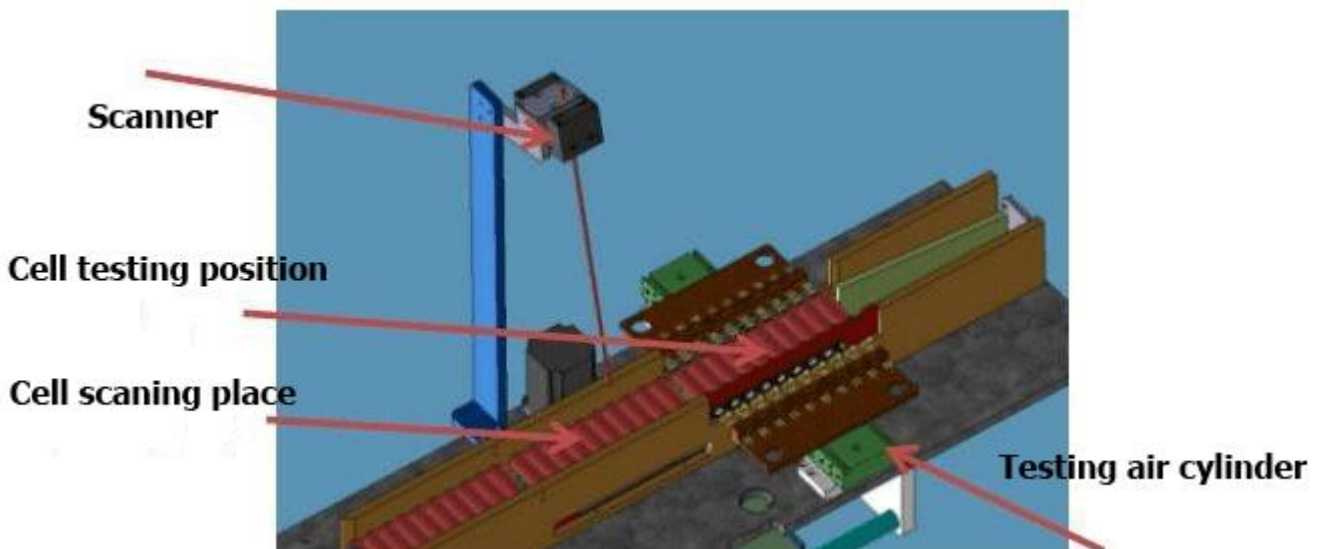
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- Filing accuracy : 100%
- Secondary test: voltage deviation $\pm 0.25\text{mV}$  , Impedance deviation $\leq 1\text{m}\Omega$
- Sorting item : OCV、 AC impedance
- Device : HIOKI 3561
- WEIGHT :  $\geq 500\text{KG}$
- Dimension : 2200 ( L )  $\times$  1000 ( W )  $\times$  1500 ( H ) mm

## 4, module

- Model No. : SCHCS 18650-20g test sorting system , It can complete the test and sorting matching of conventional open circuit voltage and AC internal resistance.
- Test scan structure diagram :



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➤ **Receiving structure diagram :**

After sorting, the battery falls into the receiving tank, which can receive 60 cells. A soft rubber strip is laid at the bottom of the tank, and there is a full material shutdown alarm.

## 5, part list

NO.	NAME	BRAND
1	Gas crook	AIRTAC
2	Solenoid valve	AIRTAC
3	linear guide rail	HIWIN
4	RELY	OMRON
5	PLC	PANASONIC
6	sensor	JIAZHUN
7	Computer host	IPC
8	Testing device	HIOKI 3561

## OTHERS

1. The probe is a vulnerable part with spring, and its service life is related to the test frequency. If the test frequency is very high, it is generally recommended that the customer replace the probe within 30 days and evaluate it according to the specific usage

### Other requests

1. The appearance color of the equipment is international standard warm gray 1C
2. Measure 1000mm away from the outer wall of the machine, and the equipment noise is  $\leq 80\text{dB}$
3. The equipment shall comply with relevant national safety standards for equipment and various safety standards and requirements required by the buyer's relevant safety codes

Chinese operation manual and equipment maintenance manual shall be attached