

Battery 10 channels 40135 Cell Sorting machine

SoliCELL SKXD-1000S

Functional Description:

Cylindrical battery 10 channel sorting machine is suitable for the voltage and internal resistance sorting test of the 40135 battery core which is divided by the battery core factory. The electrical control part of the sorting system adopts modular design, with high integration, good general purpose and convenient maintenance. The actuator adopts stepper motor control with high precision and good reliability. The number of equipment receiving slots is 10 slots, which can be arbitrarily set voltage and internal resistance value. The sorting efficiency is high, and the battery can be accurately sent to the specified gear according to the set internal resistance and voltage value. The equipment adopts the silo type loading, the cylinder automatically sorts, classifies the material, and the personnel manually collects the material.

Automation of 40135 cell sorting is realized.

40135 battery 10 channel sorting machine appearance:



Test items :

- A. 40135 cylindrical battery voltage test
- B. 40135 cylindrical battery internal resistance test
- C. Based on the voltage and internal resistance test, the 40135 cylindrical battery is divided and the specification is set.

Main technical parameters:

Tester accuracy

A. Voltage measurement technical parameters

Voltage measurement resolution: 0.1mA

3561 battery measuring instrument voltage range: 19.9999V

Accuracy: $\pm 0.025\%$ R.D. ± 6 dgt

B. Internal resistance measurement technical parameters

Internal resistance measurement resolution: 0.1m Ω

3561 battery tester resistance range: 310.00m Ω / 3.1000 Ω

Accuracy: $\pm 0.025\%$ R.D. ± 6 dgt

C. Internal resistance measurement frequency: 1KHz \pm 0.2 KHz (AC four-terminal method)

D. SKXD-1000 40135 battery 10 Channels with one measurement, sorting machine test efficiency Trouble-free operation design capacity: 3,000 / hour

E. Test data

The tester test result data includes test time, cell voltage value, cell internal resistance value, and receiving set value, and the data is comprehensive.

F: SKXD-1000 10 Channels battery 1one-measurement sorting machine for battery specification range

- a. Applicable batteries: 135 \pm 0.3mm (length) * 40 \pm 0.5mm (diameter) cylindrical battery
- b. The battery core can not be used as bare cell or with packaging. It must be heat-shrunked with a PVC sleeve to prevent short circuit.
- c. The surface of the heat-shrinkable film of the battery core must be flat, and there should be no bulging, deformation, distortion, damage, etc., to prevent malfunction of the battery core material.
- d. Both the positive and negative ends of the battery must be clean, and there must be no dirt, stains, oxidation, foreign matter, etc., to prevent the impact of the voltage and internal resistance of the battery.

Parameters of the whole machine:

1. Host input power: single phase 220V/50Hz
2. Dimensions: 3000(L)mm*1000(w)mm*2000(H)mm
3. Access air pipe: Φ 10mm (outer diameter)
4. Air source low pressure: 0.4~0.6MPa
4. Machine weight: 450kg
5. Machine power: 0.5KW

General configuration and standards of equipment

1. Equipment equipped with tools: 1 set of instructions, 1 set of Allen wrenches, and accessories for consumable parts list.
2. The equipment complies with the safety standards of the national equipment and meets the safety standards required by the relevant party's safety code.
3. the main configuration list

NO.	Name	Model/Technical Parameter	Brand
1	PLC main engine	FBS-40mat	Fakek
2	Touch screen	10-inch	Kunluntongtai
3	Geared motor	5IK60RGN-C+5GN50K	V.T.V
4	servo motor	400W	Hcfa
5	pneumatic component		AirTAC
6	slide		Hiwin
7	Battery tester selection	HK3561	HK
8	Machined parts		SKXD
9	Sheet metal rack	Welding paint	SKXD