

Manual Ocv Multifunction Test Sorting Machine

Item Number: RB02



Introduction

Manual OCV multifunction test sorting machine for pouch lithium ion prismatic cells combines voltage and internal resistance grading data binding database storage and operator guided handling for controlled battery production inspection with computer display and configurable audible grade notification.

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Application	Description	Key Benefit
Pouch Cell OCV Grading	Tests pouch lithium-ion prismatic cells for voltage and internal resistance, then assigns a software-defined grade.	Combines two key electrical measurements with a clear sorting result.
Final Cell Inspection	Supports end-of-process inspection before completed cells are placed into grade-specific blister trays.	Gives operators displayed data and an audible grade prompt for controlled disposition.
Production-Line Cell Sorting	Provides a manual workstation for repeated loading, testing, data upload, and manual unloading.	Supports at least 10 PPM, subject to manual placement speed and the stated test time.
Pilot-Line Format Changeover	Handles compatible pouch-cell dimensions using a simple locating fixture.	Simplifies adaptation across specified cell sizes in pilot or development workflows.
Battery R&D Cell Screening	Records voltage and internal-resistance results in the software and database for tested cells.	Keeps measured results available for review during experimental cell evaluation.
Abnormal Product Identification	Displays product test data on the computer screen during the operating sequence.	Helps personnel identify products that require attention before tray placement.
Grade-Based Blister Tray Handling	Directs the operator to manually place each completed cell into the corresponding grade blister tray.	Maintains a direct connection between the announced grade and physical cell separation.
Lithium-Ion Cell Data Retention	Uploads completed test data to a database through the industrial control system.	Provides stored test information for completed manual sorting operations.

Parameter	Specification	Notes
Site-facing identifier	RB02	Manual OCV testing, data binding, and sorting equipment
Intended cell type	Pouch lithium-ion prismatic cell	Used for voltage and internal-resistance grading
Core test functions	Manual OCV testing; data binding	Voltage and internal-resistance data are classified through upper-computer software
Test result handling	Data uploaded to software system after tester completion	Software assigns the grade
Cell loading	Manual placement of the battery on the fixture	Standard configuration: 1 operator
Test start method	Light curtain	Starts the tester
Cell unloading	Manual	Completed products are placed into the corresponding grade blister tray
Locating fixture	Simple positioning fixture	Model changeover is simple
Test-data display	Computer display screen	Facilitates identification of abnormal products
Control and storage	Industrial control system; test data uploaded to database for storage	Supports retention of test data

Parameter	Specification	Notes
Grade notification	Audio announcement of the corresponding grade	Voice announcement can be disabled
Supplied system components	Computer system; tester; test equipment; software system	Included equipment configuration
Efficiency	≥ 10 PPM	Specific performance depends on manual loading speed; test time is based on 0.3S
Test time	0.3S	Used as the basis for stated efficiency
Failure rate	$\leq 1\%$	
Yield rate	$\geq 99\%$	
Equipment power	1.5KW	Equipment operating power
Compatible cell length A	30mm (including top sealing edge)	
Compatible cell width B	60mm	
Compatible tab length C	≥ 8.5 mm	
Compatible total length D	80mm-330mm	
Compatible tab spacing E	30mm-80mm	
Compatible cell thickness	0.5-5mm	
Overall dimensions	10006601540 (mm) (L x W x H) mm	Dimensions are subject to final completed design
Weight	Approximately 100 kg	
Color	International warm gray	
Required air supply	0.5~0.7 Mpa	Supplied by customer
Required power supply	220V 50Hz	Voltage fluctuation less than $\pm 10\%$
Power-installation requirement	1.5KW; grounding wire and phase-loss protection required	
Floor load requirement	> 100 kg/m ²	