Manual Multifunctional Ocv Sorting Machine For Pouch Lithium Ion Cells

Item Number: FX10

Introduction

Manual multifunctional OCV sorting machine for pouch lithium ion cells, combining voltage and internal resistance testing, data binding, software grading, voice notification, and flexible cell compatibility.

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Application	Description	Key Benefit
Pouch Cell OCV Screening	Measure the open-circuit voltage of manually loaded pouch lithium-ion prismatic cells and classify results through host computer software.	Creates a structured voltage-based sorting workflow for battery evaluation.
Internal Resistance Classification	Collect internal resistance data after the cell is positioned on the fixture and the tester completes the measurement.	Supports electrical performance comparison and data-based cell grouping.
Battery R&D Laboratories	Use the manual station during cell development, sample verification, and engineering tests involving multiple pouch-cell formats.	Provides accessible testing and sorting for flexible research workflows.
Pilot Production Inspection	Apply the system to small-batch or pilot-scale inspection where operators need direct control over loading and unloading.	Combines manual handling flexibility with software-managed grading.
Cell Data Binding	Upload test results to the software system and associate measurements with individual cell processing records.	Improves traceability between tested cells, measured values, and assigned grades.
Grade-Based Tray Sorting	Transfer tested cells into corresponding grade blister trays after voice or software notification identifies the result.	Keeps downstream sorting organized and easy for operators to verify.
Multi-Format Pouch Cell Evaluation	Test compatible cells with overall lengths from 80 mm to 330 mm, tab spacing from 30 mm to 80 mm, and thicknesses from 0.5 mm to 5 mm.	Supports a broad range of specified cell geometries within one station.

Category	Parameter	Specification
Product identification	Model	FX10
Primary function	Testing and sorting	Manual OCV testing, internal resistance testing, data binding, and software-based grading
Applicable product	Cell type	Pouch lithium-ion prismatic cell
Operating method	Cell loading	Manual placement of the cell onto the fixture
Operating method	Test initiation	Light curtain starts the tester after cell placement
Operating method	Test completion	Tester completes measurement and uploads data to the software system
Operating method	Grade notification	Voice announcement of the grade; voice function can be disabled
Operating method	Cell unloading	Manual placement of tested products into corresponding grade blister trays
Included system	Computer	Computer system included
Included system	Tester	Tester included
Included system	Testing equipment	Testing equipment included

Category	Parameter	Specification
Included system	Software	Software system included for data upload, binding, and grading
Compatibility	Cell length A, including top sealing edge	30 mm
Compatibility	Cell width B	60 mm
Compatibility	Tab length C	≥8.5 mm
Compatibility	Overall length D	80 mm-330 mm
Compatibility	Tab spacing E	30 mm-80 mm
Compatibility	Cell thickness	0.5-5 mm
Equipment dimensions	External dimensions	1000*660*1540 mm, length X width X height
Equipment dimensions	Final design note	Dimensions are subject to the final completed design
Installation environment	Air supply pressure	0.5~0.7 Mpa, supplied by the customer
Installation environment	Power supply	220 V, 50 Hz
Installation environment	Voltage fluctuation	Less than ±10%
Installation environment	Power capacity	1.5 KW
Installation environment	Electrical requirements	Grounding wire and phase-loss protection required
Installation environment	Floor load capacity	>100 kg/m2
Physical characteristics	Approximate weight	Approximately 100 kg
Physical characteristics	Color	International warm gray