

Glove Box Compatible Automatic Cylindrical Battery Sealing Machine

Item Number: YZ23



Introduction

Automatic cylindrical battery sealing machine for glove box operation, three-stage sealing, precise molding, strong airtightness, high consistency, and reliable production of 18650 and 21700 cells with PLC touchscreen control, adjustable parameters, compact construction, and efficient automated loading and unloading

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Application	Description	Key Benefit
Cylindrical Lithium-Ion Cell Assembly	Automates the sealing of cylindrical cells after internal component placement and preparation, including commonly used 18650 and 21700 formats.	Improves sealing consistency and reduces manual assembly variation.
Glove Box Battery Fabrication	Operates with the sealing section positioned inside a glove box for cell processing under a controlled atmosphere.	Supports sensitive battery assembly processes while limiting environmental exposure.
Battery Materials Research	Provides repeatable sealing for laboratory studies evaluating electrode materials, electrolytes, separators, and cell construction methods.	Helps researchers compare cell performance using more consistent sealing conditions.
Pilot-Scale Cell Production	Supports small-batch and pilot-line production where automated transfer and repeatable three-stage sealing are required.	Increases throughput while maintaining controlled forming quality.
Cylindrical Cell Format Development	Uses replaceable molds to process different cylindrical battery sizes and support development work across multiple cell formats.	Extends equipment flexibility without requiring a separate sealing machine for every size.
Academic and Advanced Materials Laboratories	Provides a compact, automated sealing solution for universities, research institutes, and industrial laboratories developing electrochemical devices.	Combines manageable installation requirements with repeatable laboratory operation.

Parameter	Specification
Product Item Number	YZ23
Equipment Type	Automatic cylindrical battery sealing machine
Operating Configuration	Split design; sealing section can operate inside a glove box
Automation Functions	Automatic sealing, automatic loading, and automatic unloading
Sealing Process	First-stage sealing, second-stage sealing, and third-stage squat sealing
Standard Sealing Mold	18650-series sealing mold
Optional Mold Configuration	Other cylindrical battery specifications available through optional mold replacement, including 21700 formats
Maximum Sealing Pressure	Max. 3000 kg
Processing Accuracy	±0.1 mm
Mold Service Life	>3,000,000 cycles
Production Capacity	6 PCS/min
Control Interface	PLC touchscreen operation
Configured Power Supply	220 V / 50 Hz

Parameter	Specification
Rated Power	0.5 kW
Compressed Air Requirement	0.5 MPa-0.7 MPa
Product Dimensions	L550 × W420 × H800 mm
Net Weight	150 kg
Structural Design	Rigid steel structure
Sealing Edge Performance	Smooth sealing edge with reliable airtightness
Forming Performance	High dimensional accuracy, high efficiency, and good consistency
Maintenance Characteristics	Convenient maintenance and compact construction