

Automatic Hydraulic Sealing Machine For Cylindrical Batteries

Item Number: YZ22



Introduction

Automatic hydraulic sealing machine for cylindrical batteries with precise multi stage crimping, reliable airtight closure, high throughput, glovebox compatible operation, and repeatable production performance for advanced battery research across workflows

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Application	Description	Key Benefit
Cylindrical lithium-ion battery assembly	Automates final closure operations for 18650 cylindrical cells after electrolyte filling and component placement.	Produces consistent sealing geometry and supports reliable airtight cell construction.
21700 battery development	Uses optional compatible tooling to seal larger cylindrical cells during prototype and process development work.	Allows one equipment platform to support multiple cylindrical cell formats.
Glovebox battery research	Operates with the processing section installed inside a glovebox for controlled-atmosphere sealing.	Reduces exposure to moisture and oxygen during sensitive cell fabrication steps.
Battery R&D laboratories	Provides programmable, repeatable sealing for experimental batches, formulation studies, and design validation.	Improves batch-to-batch consistency and reduces dependence on manual operator technique.
Pilot-scale cell production	Supports repeatable sealing operations between laboratory development and larger-scale manufacturing.	Delivers practical throughput of 6 pieces per minute for structured pilot workflows.
Battery process optimization	Enables evaluation of first-, second-, and third-stage crimping conditions using adjustable PLC-controlled parameters.	Helps engineering teams refine closure quality, dimensional accuracy, and process stability.
Academic materials research	Provides controlled cylindrical cell sealing for university and research institute investigations into new electrode and electrolyte systems.	Offers reliable equipment for repeatable experimental cell preparation.

Parameter	Specification
Product item number	YZ22
Equipment type	Automatic hydraulic sealing machine for cylindrical batteries
Sealing operation	Automatic sealing, automatic feeding, and automatic discharge
Sealing process	First-stage sealing, second-stage sealing, and third-stage crimping sealing
Standard sealing mold	18650 series sealing mold
Optional tooling	Other cylindrical battery specifications, including 21700 series formats
Maximum sealing pressure	Max.3000Kg
Processing accuracy	±0.1mm
Mold service life	≥ 300□
Production capacity	6PCS/min
Power supply	220v/50Hz
Rated power	0.5KW
Compressed air requirement	0.5MPa□ 0.7MPa

Parameter	Specification
Product dimensions	L550W420H800mm
Net weight	150kg
Structural configuration	Split design; suitable for operation inside a glovebox
Control system	PLC touchscreen operation
Operating characteristics	Easy parameter setting, high automation, convenient operation, compact size, accurate forming, and straightforward maintenance