

Laboratory Manual Cylindrical Battery Third Seal Crimping Machine

Item Number: YZ18



Introduction

Laboratory manual cylindrical battery crimping sealing machine for 18650 third sealing delivers precise pressure control, smooth edges, strong airtightness, stable forming, compact operation, and glovebox compatible battery research performance with reliable consistency and convenient maintenance for demanding laboratory workflows

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Application	Description	Key Benefit
18650 Cylindrical Cell Research	Performs the third sealing operation on 18650 cylindrical batteries after cell assembly and preceding process stages.	Produces consistent sealing geometry and reliable airtightness for laboratory cell development.
Battery Materials R&D	Supports experimental battery programs requiring repeatable cylindrical cell sealing after material, electrode, or electrolyte evaluation.	Provides controlled manual forming for small-batch research and process comparison.
Glovebox Cell Fabrication	Operates inside a glovebox for cylindrical battery sealing under a controlled atmosphere.	Compact construction supports sensitive cell assembly workflows while limiting exposure to ambient conditions.
Academic Battery Laboratories	Provides a practical sealing solution for universities and research institutes conducting cylindrical battery experiments.	Low operating complexity and manual control simplify training, experimentation, and batch testing.
Pilot-Scale Cell Prototyping	Handles repeated third sealing tasks during prototype cell preparation and early-stage process development.	Stable hydraulic pressure improves consistency between prototype cells.
Custom Cylindrical Battery Formats	Uses optional cylindrical battery sealing dies when formats other than 18650 are required.	Supports broader development needs without restricting the laboratory to one cell size.

Parameter	Specification
Product Item Number	YZ18
Application	Cylindrical battery third sealing operation
Standard Sealing Die	18650 cylindrical battery third sealing die
Optional Tooling	Other cylindrical battery sealing dies available as optional configurations
Drive Type	Hydraulic drive
Maximum Sealing Pressure	Up to 8 tons
Normal Sealing Pressure Gauge Reading	Approximately 80-100 kg/cm ²
Maximum Pressure Gauge Reading	Up to approximately 200 kg/cm ² , corresponding to approximately 8 tons of pressure
Pressure Adjustment	The machine is adjusted before delivery; adjustment to higher pressure for special conditions must be discussed with the manufacturer before changing the setting
Hand Lever Operating Force	Less than 6 kg
Sealing Characteristics	Smooth sealing edge, good airtightness, high dimensional accuracy, high efficiency, and good consistency

Parameter	Specification
Vibration During Sealing	No vibration during battery sealing under normal operation
Structural Material	High-strength chromium steel
Surface Treatment	Environmentally friendly electroplating and coating treatment; rust-resistant construction
Die Material	Japanese imported die material
Installation Environment	Can be placed and operated inside a glovebox
Overall Dimensions	235 mm × 190 mm × 350 mm
Weight	25 kg