

Laboratory Manual Cylindrical Battery Sealing Machine

Item Number: YZ17



Introduction

Laboratory manual cylindrical battery sealing machine with two stage sealing hydraulic drive embedded pressure gauge and 8 ton maximum force for precise 18650 research

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Application	Description	Key Benefit
Lithium Battery Material Research	Used to seal cylindrical research cells prepared during electrode, electrolyte, and cell-material development programs.	Produces consistent sealing conditions for repeatable sample preparation and subsequent testing.
18650 Cylindrical Cell Prototyping	Supports laboratory assembly and sealing of 18650-format cylindrical battery samples using the standard die set.	Enables controlled two-stage sealing with accurate forming and improved airtightness.
Cylindrical Capacitor Research	Suitable for sealing cylindrical capacitors during material evaluation, component development, and laboratory sample preparation.	Provides strong, stable forming force for dependable enclosure closure.
Glovebox Cell Assembly	The compact unit can be placed inside a glovebox for operations requiring a controlled atmosphere.	Helps maintain a suitable environment during sensitive battery or capacitor assembly procedures.
Small-Batch Trial Production	Supports limited-quantity trial production and process verification before larger-scale manufacturing.	Offers a practical bridge between laboratory development and low-volume production.
Battery Process Development	Allows researchers to evaluate sealing pressure, forming behavior, and dimensional results across experimental cell batches.	Built-in pressure monitoring improves process observation and adjustment.
Academic and Advanced Materials Research	Provides a manually controlled sealing solution for universities, research institutes, and materials laboratories.	Combines compact size, flexible die selection, and accessible operation for varied research programs.

Parameter	Specification
Product Item Number	YZ17
Equipment Type	Laboratory manual cylindrical battery sealing machine
Primary Application	Cylindrical battery and cylindrical capacitor research sample sealing; small-batch trial production
Drive System	Hydraulic drive
Standard Sealing Die	18650 cylindrical battery sealing die set
Standard Die Operation	Two-stage sealing
Optional Die Configuration	Other cylindrical battery sealing die specifications available by selection
Hand Lever Operating Force	Less than 6 kg
Normal Sealing Pressure Gauge Reading	Approximately 80-100 kg/cm ²
Maximum Adjustable Pressure	200 kg/cm ²
Approximate Maximum Sealing Force	Approximately 8 tons
Pressure Adjustment Notice	The unit is adjusted before delivery. Adjustment to higher pressure for special conditions must be confirmed with the manufacturer before operation.

Parameter	Specification
Pressure Monitoring	Embedded pressure gauge
Sealing Characteristics	Flat sealing edge, good airtightness, high dimensional accuracy, high efficiency, and good consistency
Sealing Motion	No vibration during battery sealing
Die Material	Japanese imported die material
Structural Material	High-strength chromium steel
Surface Treatment	Environmentally considerate electroplating and spray treatment; rust-resistant finish
Overall Dimensions	235 mm × 190 mm × 360 mm
Net Weight	35 kg
Installation Environment	Suitable for laboratory bench use; compact enough for placement inside a glovebox
Operation	Manual hand-lever operation