

Manual Coin Cell Battery Crimping Machine

Item Number: CC01



Introduction

Manual coin cell battery crimping machine for laboratory research delivers precise hydraulic sealing up to 8T pressure, compact glovebox operation, adjustable safety control, accurate height limiting, and dependable short circuit protection for repeatable sample preparation and pilot production.

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Application	Description	Key Benefit
Coin Cell Battery R&D	Seal coin cells after electrode, separator, and electrolyte placement during laboratory battery development.	Consistent sealing height and monitored pressure improve sample-to-sample repeatability.
Battery Materials Screening	Prepare large numbers of coin cell samples for evaluating cathode, anode, electrolyte, and additive formulations.	Low-effort manual operation supports efficient research batches without requiring a powered production line.
Capacitor Research	Perform controlled sealing of laboratory capacitor samples and related electrochemical test components.	High closing force and precision tooling support secure, stable sample closures.
Glovebox Assembly	Operate the system inside a glovebox when handling air-sensitive electrode materials or electrolytes.	Compact dimensions enable sealing under controlled atmosphere conditions.
Small-Batch Pilot Production	Support limited factory trial production, process verification, and pre-production sample preparation.	Hydraulic force and visible pressure feedback provide a practical bridge between research and pilot workflows.
Battery Disassembly	Use suitable alternative tooling to open or disassemble coin cell samples for post-test analysis.	Interchangeable tooling expands the equipment's usefulness beyond one sealing operation.
Electrode Sheet Pressing	Configure the equipment for pressing electrode sheets during material and process development.	Stable mechanical structure enables controlled laboratory pressing with low operating complexity.
Powder Pellet Pressing	Press battery powder into compact pellets or related research specimens using appropriate dies.	One compact platform can support multiple sample preparation tasks across materials research.

Parameter	Specification
Model	CC01
Equipment type	Manual hydraulic coin cell battery crimping and sealing machine
Primary function	Coin cell battery sealing for laboratory research and small-batch trial production
Additional functions with suitable tooling	Battery disassembly, electrode sheet pressing, and battery powder pellet pressing
Drive method	Hydraulic drive with manual hand lever operation
Maximum pressure	200 kg/cm ² , approximately 8 tons of pressure
Recommended normal coin cell sealing pressure	Pressure gauge reading of approximately 80-100 kg/cm ²
Factory pressure setting	Adjusted before shipment for normal coin cell sealing conditions
Pressure adjustment	Higher pressure can be adjusted for special conditions after consultation with the manufacturer
Manual handle operating force	Less than 5kg
Pressure monitoring	Built-in recessed pressure gauge

Parameter	Specification
Pressure safety system	Internal safety relief oil valve with adjustable pressure and upper pressure limit
Lower die positioning	High-precision positioning ring limits the sealing height
Sealing height adjustment	Loosen the four set screws on the side of the sealing limit nut, rotate the nut to adjust height, then retighten the set screws
Upper die ejection mechanism	Screw-and-spring ejector center inside the sealing cup for forced coin cell removal when stuck
Tooling material	Japanese imported die material
Structural material	High-strength chrome steel
Surface treatment	Environmentally friendly electroplating and spray treatment; designed to resist rust
Short-circuit protection	Structure includes a function designed to prevent battery sealing short circuits
Hydraulic valve operation	Tighten the oil release handwheel clockwise to close and pressurize; loosen it counterclockwise by approximately half a turn to open the die
Valve rotation protection	Handwheel includes limit positions in both directions to help prevent over-rotation and oil leakage
Operating environment	Suitable for operation inside a glovebox due to compact size
Overall dimensions	223mm X 170mm X 325mm
Weight	25kg