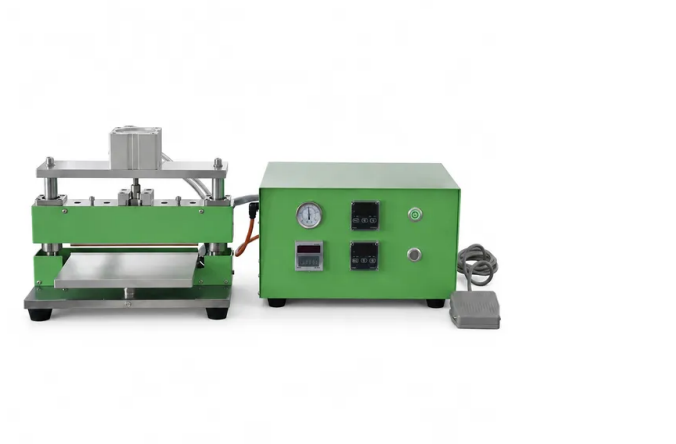


Split Type Pouch Cell Top And Side Heat Sealing Machine

Item Number: CC05



Introduction

Engineered for inert glovebox integration, this split type pouch cell top and side heat sealing machine delivers precision thermal bonding, independent dual copper die temperature control, and adjustable pneumatic pressure for high integrity lithium battery packaging research.

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Application	Description	Key Benefit
Lithium-Ion Pouch Cell Prototyping	Hermetic top and side sealing of multilayer aluminum-laminated film casings in laboratory-scale cell assembly lines.	Delivers leak-tight seals with uniform bonding thickness, preventing electrolyte leakage and moisture ingress.
Inert Atmosphere Glovebox Packaging	Final sealing of pre-injected pouch cells within moisture- and oxygen-controlled argon or nitrogen environments.	Split-unit modularity fits standard antechambers without outgassing or overheating internal glovebox chambers.
Solid-State Battery Assembly	Thermal bonding of advanced high-barrier pouch casings for solid-state and gel-polymer electrolyte prototypes.	Independent temperature controls allow fine-tuned thermal input to bond specialty barrier films without thermal degradation.
Sodium-Ion & Lithium-Sulfur Research	Experimental cell packaging requiring precise dwell times and customizable sealing pressures for novel pouch materials.	Rapid parameter adjustment enables fast screening of alternative barrier laminates and sealing profiles.
Battery Material Quality Control	Destructive and non-destructive seal integrity testing, weld burst evaluation, and laminate bond qualification.	Ensures repeatable baseline sealing parameters to accurately benchmark laminate bond strengths and failure thresholds.
Pilot-Scale Pilot Production	Small-batch, high-mix battery cell manufacturing requiring rapid transition between top sealing and side sealing steps.	Zero-tooling changeover between top and side sealing stages significantly shortens cycle times in flexible production setups.

Parameter	Specification (CC05)
Product Item Number	CC05
Equipment Architecture	Split-Type Configuration (Independent Sealing Unit & External Control Station)
Sealing Mode	Top Sealing & Side Sealing (Universal Die, Tool-Free Operation)
Sealing Die Material	High Thermal Conductivity Solid Copper
Upper Die Standard Temperature	180 °C (Adjustable via Digital Controller)
Lower Die Standard Temperature	180 °C (Adjustable via Digital Controller)
Temperature Control Method	Dual Independent Digital PID Controllers with PV/SV Display
Sealing Dwell Time	Standard 2 – 3 s (Adjustable 0 – 99 s)
Actuation Mechanism	Pneumatic Cylinder with Dual Precision Linear Guide Bushings
Compressed Air Requirement	≥ 5.0 kg/cm² (≥ 0.5 MPa)
Compatible Packaging Materials	Aluminum-Laminated Film / Polymer Pouch Casing
Power Supply	AC 220 V ± 10% / 50 Hz
Rated Power Consumption	0.5 kW
Equipment Weight	35 kg