

Manual Battery Cell Hot Press Flattening Shaping Machine

Item Number: RB07



Introduction

Manual battery cell hot press flattening shaping machine delivers adjustable 1T pressure and 250°C heating for consistent wound cell thickness reduced rebound safer casing insertion and reliable lithium battery production.

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Application	Description	Key Benefit
Wound lithium-ion cell finishing	Thermally flatten wound cells after winding and before the cells are placed into their housings.	Supports more consistent finished cell thickness and easier casing insertion.
Battery pilot-line process development	Evaluate temperature, pressure, and pressing-time combinations during cell process development.	Adjustable forming conditions support practical parameter optimization.
Cell thickness consistency control	Apply controlled platen pressure across a wound cell to stabilize its external profile.	Helps reduce variation in thickness among finished cells.
Cell rebound reduction	Heat and compress wound cells so that the cell is stably formed under defined thermal and pressure conditions.	Reduces cell elasticity that can complicate subsequent assembly operations.
Casing insertion preparation	Condition wound cells before housing installation in battery manufacturing workflows.	Helps lower the risk of short circuit during cell loading, as described for the forming process.
Laboratory battery R&D	Carry out controlled hot flattening trials for wound cell formats in research and validation work.	A compact single-station design provides a dedicated process tool without a large footprint.
Small-batch cell production	Use automatic or semi-automatic operation for repeated thermal shaping of individual cells.	Improves operating convenience while retaining manual functionality for adjustments.

Parameter	Specification
Product Item Number	RB07
Equipment Type	Manual battery cell hot press flattening shaping machine
Primary Application	Hot flattening and shaping of wound battery cells after winding, before casing insertion
Operating Principle	Temperature controller and thermocouple control heating tubes to transfer heat to the pressing templates; a cylinder presses the upper and lower templates onto the cell so it is stably formed under temperature and pressure
Power Supply	AC220V/50Hz
Power	1.5KW
Air Source	0.5Mpa□ 0.8Mpa
Hot Press Area	200x200mm
Pressure	1T pressure adjustable
Pressure Adjustment	Upper and lower worktable pressure adjustable through pressure regulating valve
Temperature Control Accuracy	±2°C
Heating Temperature	Room temperature□ 250°C adjustable

Parameter	Specification
Temperature Display	LCD display of current value and set value
Temperature Setting	Adjustable through temperature controller panel buttons
Hot Press Time	Adjustable
Platen Parallelism	Within 0.05
Workstation Configuration	Single station
Heating / Platen Construction	Heating tubes transfer heat to pressing templates; worktable surfaces use high-quality material with good heat-transfer performance
Actuation	Cylinder-driven upper hot-press template
Control Modes	Automatic and semi-automatic control; manual function for adjustment
Safety Device	Light-curtain protection device
Alarm Function	Temperature abnormality alarm
Equipment Weight	Approximately 80Kg
Overall Dimensions	L350xW320xH550mm
Exterior Design	Geometric sheet-metal design