Rotary Hot Cold Press For Pouch Lithium Battery Cells

Item Number: RB17

Introduction

Rotary hot and cold press for pouch lithium battery cells delivers high-throughput thermal forming, precision thickness control, adjustable 5T pressing force, and reliable three-station automation for demanding battery manufacturing lines requiring controlled dwell, platen alignment, and repeatable material handling.

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Application	Description	Key Benefit
Pouch Lithium Battery Cell Heat-Press Forming	Applies controlled platen pressure and adjustable temperature during the heat-press forming stage for pouch lithium battery cells.	Hot-press temperature can be set from room temperature to 260° with ±3° control accuracy.
Pouch Lithium Battery Cell Cold-Press Shaping	Performs the room-temperature cold-press shaping stage after hot pressing within the rotary workflow.	Combines hot pressing and cold pressing in a defined three-station process sequence.
Thickness-Direction Flatness Processing	Processes cells where the two planes in the thickness direction require high flatness and parallelism.	Upper and lower platen parallelism is specified at ±0.025 mm.
Mid-Range Pouch-Cell Production	Supports manufacturing of mid-range pouch-cell products with stated requirements for dimensional processing.	Handles products within 10-350 mm length, 5-250 mm width, and 2-15 mm height.
High-Grade Pouch-Cell Production	Supports processing of higher-grade pouch-cell products requiring high precision between thickness-direction planes.	Adjustable upper-platen pressure up to 5T supports the specified pressing operation.
Continuous Cell Pressing Lines	Uses loading, hot pressing, cold pressing, and unloading stations in a rotary-table workflow.	Rated capacity of 300-600 pieces, dependent on product dimensions.
Pouch-Cell Process Development	Provides adjustable temperature, pressure holding time, and upper-platen pressure for defined pouch-cell pressing conditions.	Holding time is adjustable from 0-999 seconds and hot-press temperature includes compensation settings.

Parameter	Specification
Site-facing identifier	RB17
Equipment application	Heat-press forming and cold-press shaping production process for pouch lithium battery cells
Process stations	Loading - hot pressing - cold pressing (room temperature) - unloading
Rotary-table drive	Cam indexer motor drive
Power supply	220V/50Hz
Installed power	7.5KW
Compressed air requirement	≥0.8Mpa, 15L/Min
Equipment weight	Approximately 1.0 T
Required floor load capacity	>1 T/□
Equipment dimensions, L × W × H	Approximately 1500*1400*1600mm
Transparent PP material	Customer supplied
Product dimensions, L × W × H	Within (10-350) × (5-250) × (2-15)

Parameter	Specification
Production capacity	300-600EA (depending on product size)
Indexer accuracy	±0.05~0.1mm
Applicable cell thickness	0-15mm
Pressure cylinder maximum output	Approximately 5T
Upper platen pressure	5T adjustable
Pressure holding time	0-999 seconds adjustable
Hot-press temperature	Room temperature-260° adjustable; compensation can be set; control accuracy ±3°
Cold-press temperature	5-20℃
Chiller provision	This equipment does not include a chiller; it may be purchased separately if required by the user
Upper and lower platen parallelism	±0.025mm
Parallelism verification condition	With three-part carbonless copy paper, the imprint must be uniform at a 1T pressure setting and the operating temperature
Upper and lower platen dimensions	350*350mm