

## Hot Press Pressure Formation Machine

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### System Features

- Cell would be heated up during formation, which improve the fluidity of electrolyte, strengthen the viscosity of electrolyte, with homogeneously spread of electrolyte, SEI would be formed easily, cycle life could be extended; Cooling compression could cool down the cell temperature quickly, under this format cell would be in good performance, low bulge rate and long cycle life, etc.
- Solution adopts compression in horizontal way, clamping tools adopts server rod, pressure distributes in uniformity, pressure control deviation  $\leq 10\text{kgf}$ .
- Clamping tool for compression tray be heated by electricity, and the temperature could be flexibly adjusted, maximum temperature tolerance can reach  $90^{\circ}\text{C}$ .
- Clamping tools are compatible for tabs on each side and tabs on same side, and realize quick changeover.

### Equipment Parameters

Item	Specification
Voltage measurement range	0~5V for charge, 1.5~5V for discharge, resolution ratio of 0.1mV

Current measurement range	20mA~60A, resolution ratio of 0.1mA
Current and voltage accuracy	$\pm (0.05\%FS+0.05\%RD)$
Pressure uniformity between laminates	$\leq 100\text{kgf}$
Pressure control accuracy	$\leq \pm 20\text{kgf}$
Temperature uniformity of each battery cell	$\leq \pm 2^{\circ}\text{C}$
Communication method	Ethernet
Channel utilization	$\geq 99.9\%$