

SJ Industrial Ovens

Electric Vehicle (EV) Battery Solutions

Automotive Grade Precision
High Volume Production

The EV Revolution: Electric Vehicle batteries require the highest standards of safety and reliability. From cell manufacturing to the final pack assembly, SJ Industrial Ovens supports the EV supply chain with automotive-grade thermal processing equipment.

EV MANUFACTURING APPLICATIONS

1. Electrode Manufacturing

For EV cells (Pouch, Prismatic, or Cylindrical), the electrode drying phase determines the energy density and cycle life.

- **Equipment:** Continuous Conveyor Dryers
- **Standard:** Clean Room Class 1000 compliance
- **Control:** Multi-zone PID for precise thermal profiling

2. Module & Pack Assembly (Adhesive Curing)

EV modules are assembled using thermal interface materials (TIMs) and structural adhesives that require heat curing to bond and seal the pack against vibration and moisture.

Equipment: *Large Capacity Batch Ovens / Walk-in Ovens.*

3. Safety Testing (Thermal Runaway)

We provide specialized chambers for testing battery behavior under extreme heat conditions (Thermal Abuse Testing).

ADVANCED CONTROL SYSTEMS


Data Logging & Traceability

Integrated HMI records temperature curves for every batch, essential for automotive audit trails.

Safety Interlocks

Automatic shutdown systems, emergency stops, and explosion-relief panels for working with volatile chemistries.

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