SJ Industrial Ovens

Lead-Acid Battery Production Systems

Heavy Duty Industrial Build
20+ Years Experience

Overview: Lead-acid technology remains the backbone of industrial power. The quality of a lead-acid battery is largely determined during the curing and drying phases of the plates. SJ Industrial Ovens offers robust solutions designed to withstand acidic environments.

THE CURING & DRYING PROCESS

1. Plate Curing (Hydroset Process)

Role: This is the most critical step. Freshly pasted plates must be cured at specific temperatures and high humidity to convert free lead into the correct crystal structure (Tribasic or Tetrabasic Lead Sulfate).

Equipment: *Humidity Controlled Curing Chambers*.

> **Key Features:**
> • Humidity Control: 95% - 100% RH capability
> • Steam Injection: Integrated low-pressure steam systems
> • Construction: Acid-resistant internal coating

2. Plate Drying (Pre-Formation)

Role: After washing or pickling, plates must be dried thoroughly before entering the formation tanks to ensure uniform charging.

Equipment: *Flash Drying Tunnels & Batch Ovens*.

ENGINEERING EXCELLENCE

Our lead-acid equipment is built for longevity in harsh environments.

Corrosion Resistance
Stainless Steel (SS304/316) interiors or specialized epoxy coatings to resist acid fumes.

Uniform Airflow
High-velocity recirculation fans ensure every plate in the stack cures at the exact same rate.

Energy Efficiency
High-density ceramic wool insulation to retain heat and lower electricity costs.

Automated Cycles
PLC-based ramp and soak profiles for "Set and Forget" operation.

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