

LANBO

Advanced Equipment Solutions

Reliability Testing Equipment | Induction Heat Treatment Equipment

2026 English Company Profile

Environmental reliability

Thermal shock & corrosion

Induction hardening & brazing

Kunshan, Jiangsu, China



A focused equipment partner for validation, heating and intelligent manufacturing.

LANBO combines automated equipment engineering with specialized testing and induction-heating product lines.



2014

Kunshan LANBO founded

High-tech equipment
manufacturing base in Kunshan

2005

Testing-equipment heritage

LANBO ZTI reliability-testing
specialization

23+

patents referenced

Induction heating source deck cites
patent portfolio

30+

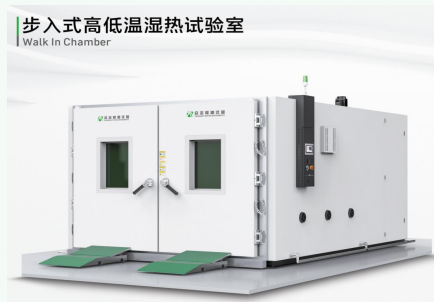
testing customers

Environmental testing source deck cites
broad customer base

- Primary offer: reliability test equipment and induction heat treatment systems for industrial customers.
- Supporting offer: vision inspection, assembly automation, warehousing and customized manufacturing systems.

Two equipment pillars carry the customer value story.

Other automation products are retained as supporting capabilities instead of competing for attention.



Reliability Testing Equipment

- Climate, thermal shock, humidity and altitude simulation
- Corrosion, aging, mechanical strength and fatigue tests
- Automotive, new energy, electronics and semiconductor validation

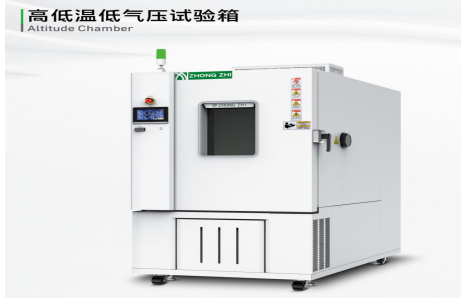


Induction Heat Treatment Equipment

- High, medium, ultra-high and super-audio frequency systems
- Surface hardening, brazing, melting, annealing and precision heating
- IGBT power units, customized coils and closed-loop cooling systems

A broad chamber portfolio covers the main environmental stress modes.

The product range supports accelerated validation from component-level samples to large assemblies and vehicles.



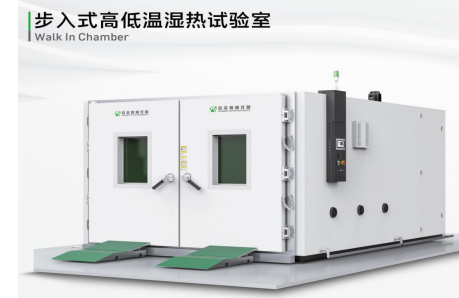
Climate Chambers

High/low temperature, humidity, rapid temperature change, altitude and double-layer chambers.



Thermal Shock

Two-zone and three-zone shock chambers for fast durability screening.



Walk-In Testing

Large climate rooms for vehicles, battery packs, equipment and oversized parts.

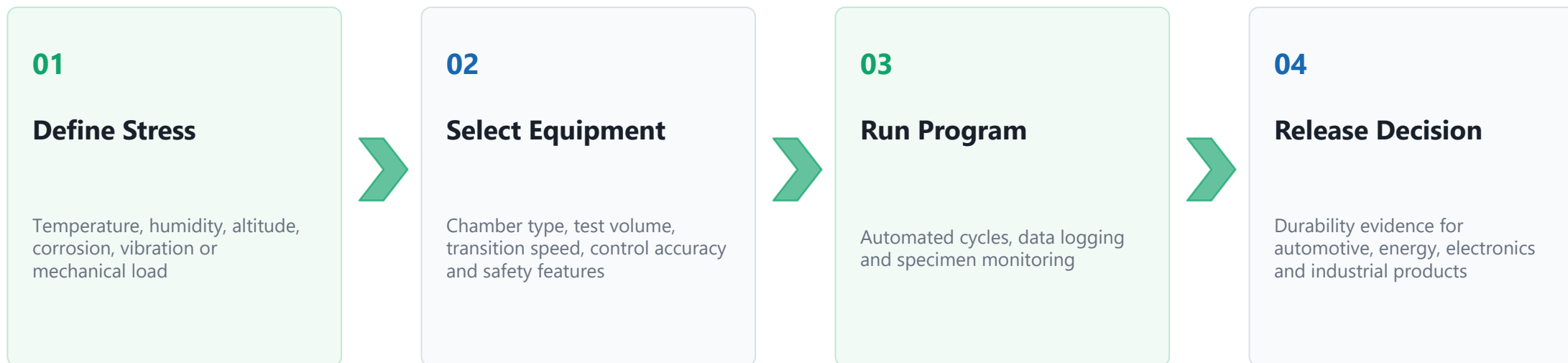


Corrosion & Aging

Salt spray, composite salt spray, SO₂, mold and corrosive gas simulation.

Reliability equipment helps customers move from stress simulation to release confidence.

The strongest value is not only chamber hardware, but repeatable validation programs for complex products.



- Supports battery packs, cells, modules, semiconductor processes, electronics and complete vehicle simulation cabins.

Mechanical, corrosion and aging tests complete the reliability picture.

Customers can combine environmental stress with material strength and logistics durability checks.



伺服拉力试验机 (SC-8000)
Servo tensile testing machine (SC-8000)



跌落试验机
Drop testing machine



动态疲劳试验机
Dynamic fatigue testing machine



Mechanical Testing

- Servo tensile testing
- High/low temperature tensile testing
- Drop testing and dynamic fatigue

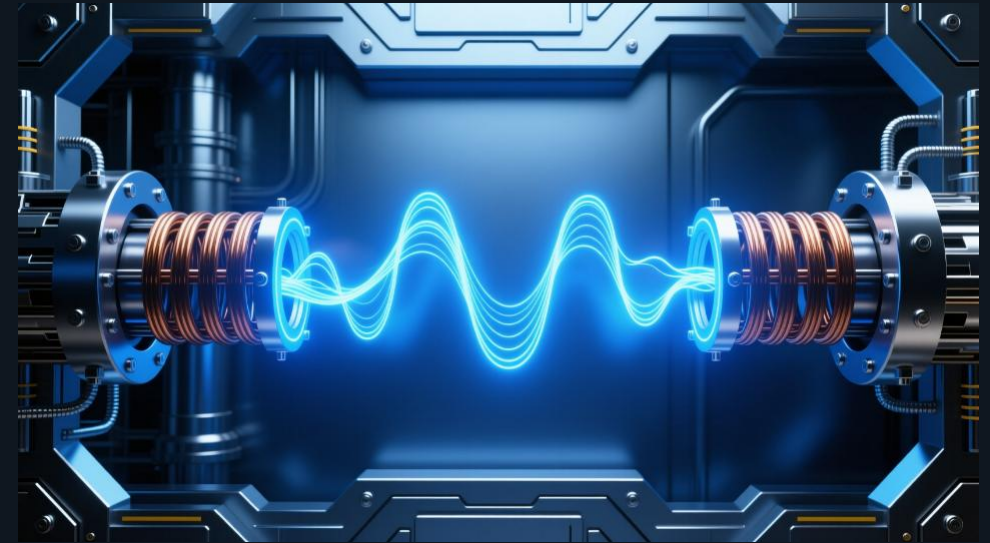
Corrosion & Aging

- Salt spray and composite salt spray
- Corrosive gas, SO₂ and mold simulation
- Long-term material resilience evaluation

INDUCTION HEAT TREATMENT

Non-contact electromagnetic heating enables fast, clean and controllable thermal processing.

LANBO systems convert 50/60Hz mains power into high-frequency alternating current. A water-cooled copper coil generates a changing magnetic field, inducing eddy-current heating inside the workpiece.



Typical benefits: rapid heating, localized heat input, lower emissions and high process repeatability.

IGBT Power Unit

Stable high-frequency power conversion

Customized Coil

Heating profile matched to part geometry

Cooling System

Continuous operation and coil protection

Induction heating equipment supports hardening, brazing, melting and precision thermal processes.

The application scope spans automotive, tooling, machinery, electronics and metal component manufacturing.



Surface hardening

Brazing and welding

Annealing

Hot fitting

Melting

Localized precision heating

Frequency and power options are matched to heating depth, speed and part geometry.

The portfolio covers compact precision heating through high-power deep penetration and melting applications.

Series	Power	Frequency	Best-fit use
High Frequency	15-260KVA	30-100KHz	Surface hardening, brazing, compact units
Medium Frequency	35-600KVA	5-30KHz	Deep penetration, melting and stronger magnetic field
Ultra High Frequency	6-200KVA	100-1500KHz	Micron-level thin-layer and precision heating
Super Audio	35-600KVA	10-30KHz	Balanced depth and speed for industrial parts



The same engineering base serves product validation, thermal processing and production automation.

This makes LANBO useful when customers need both equipment supply and process integration.

Automotive & EV

Vehicle parts, battery packs, air-conditioning connectors, thermal management and full simulation cabins.

Electronics & Semiconductor

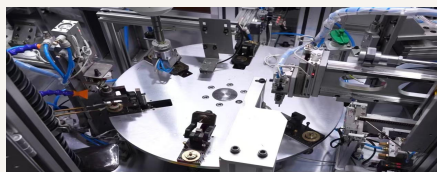
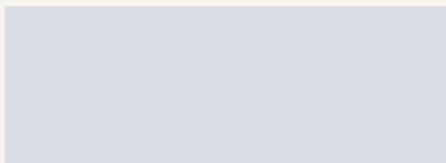
Environmental reliability, curing-process support, chip assembly, connector automation and precision inspection.

Industrial Components

Induction hardening, brazing, metal heating, pneumatic components and mechanical durability testing.

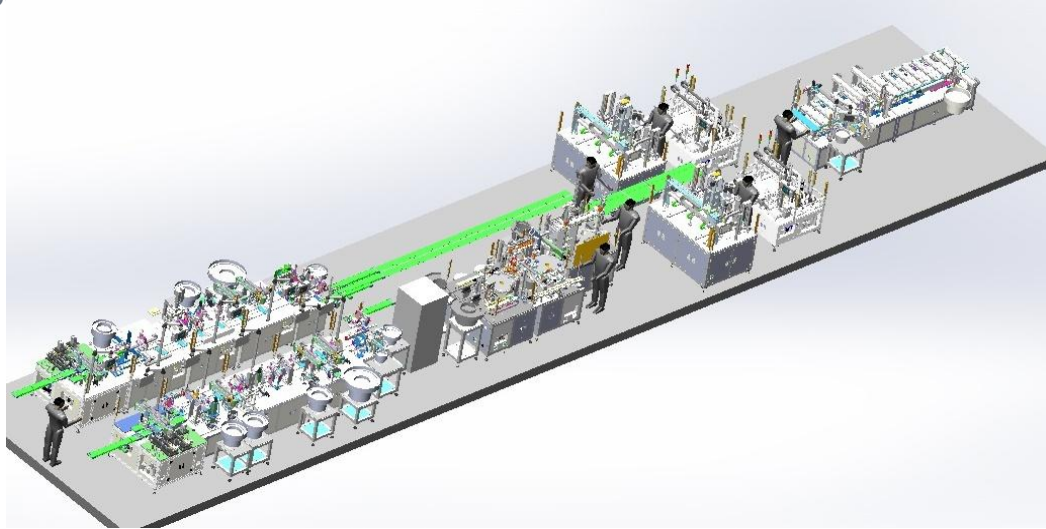
Factory Automation

Vision guidance, robotic handling, automated assembly, online inspection and smart warehousing.



Customized assembly lines improve throughput, consistency and labor efficiency.

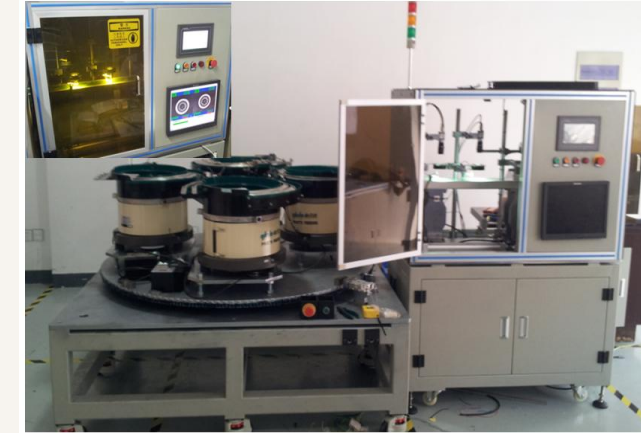
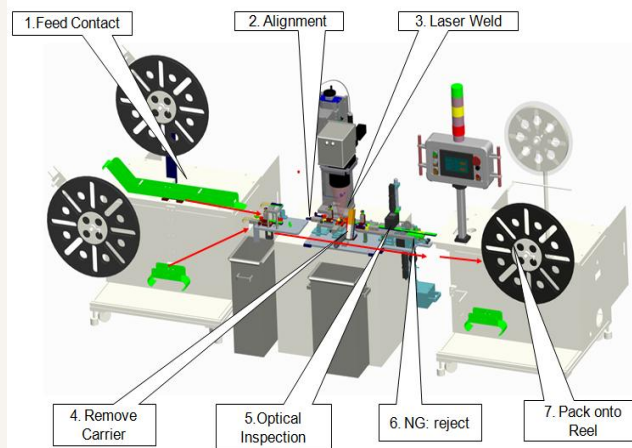
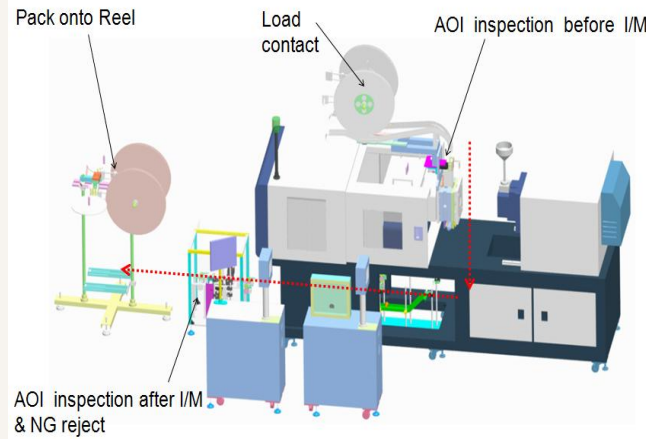
This category is positioned as a supporting capability for customers who need turnkey equipment around production flow



- **Standard cylinder assembly and testing lines, including locking, air-tightness testing, labeling and accessory assembly.**
- **Solenoid valve terminal wire assembly, connector laser welding/loading and unloading, MDP and Mini DisplayPort assembly.**

Inline inspection systems detect dimensions, appearance and positioning errors at production speed.

LANBO integrates CCD vision, 3D line scanning, pneumatic gauging and high-speed sorting according to the product geometry



3D guided assembly

Line-scan camera positioning for large automotive accessories.

Connector inspection

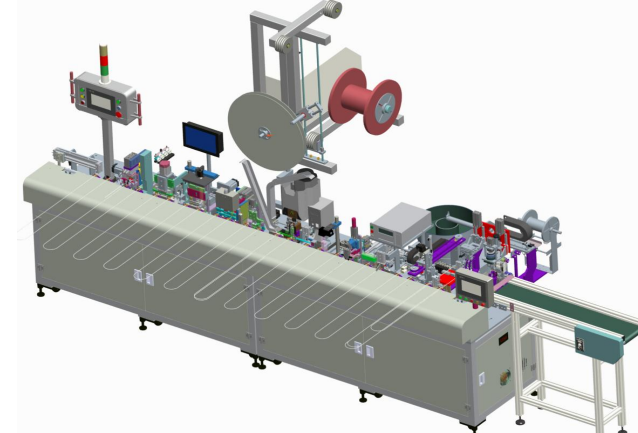
Automatic feeding, dual CCD dimensional checks and pneumatic inner-hole detection.

High-speed sorting

Appearance and dimension checks for small hardware and plastic parts.

Special-process equipment links heating, welding, drying and handling into automated cells.

These solutions are used where the process requires stable cycle time, repeatable positioning and reduced manual handling.



Typical equipment

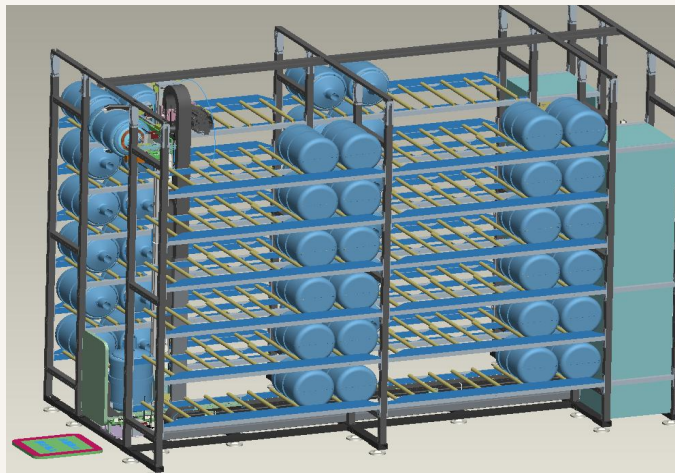
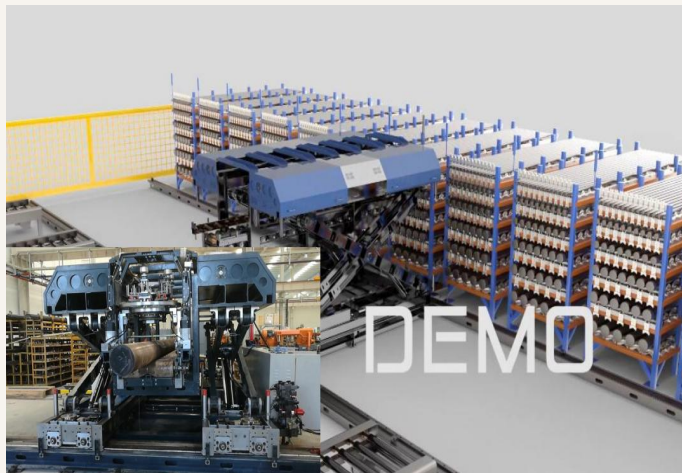
- High-frequency welding machine for tungsten carbide burrs
- Thread glue spraying and drying line for air pipe joints

Process value

- Unmanned loading and unloading
- Stable welding, drying and transfer flow

Automated handling systems connect equipment lines with warehouse and production planning data.

LANBO's special warehousing projects support heavy bars, plates and packaged goods with identification, handling and database integration.



Identify



Grab & Move



Convey



MES / ERP Link

Wastewater and waste-liquid treatment equipment extends LANBO's special equipment capability.

This product category is summarized for completeness and can be expanded only when it is relevant to the customer's project.



Typical treatment scope

- Electroplating wastewater containing gold, silver, copper, nickel and other metals
- Phosphoric-acid wastewater, cutting fluids, grinding liquid and paint waste liquid
- Fluorine-acid wastewater, ammonium sulfate waste liquid and saline wastewater

Positioning: a supporting category for customers seeking customized process equipment and integrated factory solutions.

Let us match the equipment to your test, heating or production process.

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Reliability testing

Induction heat treatment

Custom automation

