

SYNTE COMPANY PROFILE

Henan Synthe Corporation

Vacuum furnace equipment, process support and industrial thermal-processing capabilities.

Engineering, manufacturing and process support for application-matched vacuum furnace projects.



15+ years

Industrial experience

50+

Professional technicians

20+

Furnace models

200+

Annual output reference

Use this document to

Screen the application, compare reference configurations, identify the engineering variables that change the proposal, and define measurable quotation and acceptance inputs.

Current online reference

<https://syn-v2.com/about-synthe-vacuum-furnace/>

All published values are reference data for preliminary selection. Final configuration, supply scope and acceptance conditions are controlled by the project proposal and technical agreement.

SYNTE APPLICATION-LED ENGINEERING

01 / IDENTITY

What SYNHTE does

SYNHTE is a high-tech enterprise specializing in R&D;, manufacturing and sales of vacuum furnace equipment, with related vacuum brazing and heat-treatment process support.

Vacuum brazing

Aluminum, high-temperature, continuous and pressure-assisted joining systems.

Vacuum heat treatment

Gas quenching, oil quenching, carburizing, annealing and tempering systems.

Vacuum sintering

Multipurpose, MIM, additive, bottom-loading, tube-atmosphere and hot-press systems.

Process services

Vacuum brazing and heat-treatment trials / outsourcing for development and production support.

Industries

Aerospace, automotive, machinery, electronics, scientific research and other industrial applications.

Materials

Stainless steel, aluminum, alloy steel, titanium, carbide, powder metals, ceramics and compatible advanced materials.

Company distinction

Equipment and process-service capabilities allow application discussions to begin with the workpiece, qualified result and production target—not only a standard furnace model.

SYNHTE APPLICATION-LED ENGINEERING

02 / ENGINEERING

Application-led configuration method

A complete furnace configuration is developed by keeping the material, load, cycle, site and acceptance plan connected through one technical review.

01	02	03	04	05
Define result	Map process	Define load	Configure system	Agree evidence
Material and measurable target	Thermal, vacuum/gas and cooling	Part, tooling and production mass	Chamber, hot zone, pumps and controls	FAT, SAT and process records

Engineering block	Typical review content
Application	Drawing, material, prior process, target joint/property/density and inspection method
Equipment	Usable work zone, chamber orientation, hot zone, vacuum, gas, cooling and handling
Automation	Recipes, interlocks, operator roles, alarms, batch records and plant interfaces
Utilities	Power, water, gas, exhaust, air, floor/loading and maintenance access
Qualification	Test conditions, sensors, witness load, methods, pass limits and report format

03 / MANUFACTURING

Manufacturing and project execution capability

The current company profile identifies machining, assembly, painting, testing and storage areas supporting customized vacuum furnace manufacture.

Machining

Component preparation and fabrication coordinated with approved project drawings.

Assembly

Mechanical, vacuum, thermal, gas, cooling and control subsystems integrated as one equipment package.

Electrical & controls

PLC/HMI, sensors, interlocks, alarms, recipes and project-specific interfaces.

Testing

Internal functional checks and agreed FAT evidence before project release.

Documentation

Approved drawings, utility/interface information, manuals and test records according to scope.

Project support

Factory visits, technical discussions, installation/SAT and training boundaries agreed by project.

Quality boundary

Project-specific certification, component brands, test standards and report contents should be listed in the proposal and technical agreement. Company-level references do not replace project acceptance criteria.

04 / COOPERATION

Equipment supply and process-service routes

Choose the cooperation route that matches project maturity. A trial or outsourcing stage may reduce process uncertainty before equipment sizing.

Route	Best use	Information required	Output
Equipment quotation	Process already defined	Load, cycle, capacity, site and acceptance	Technical proposal and commercial scope
Application review	Furnace route still uncertain	Material, drawing, target result and constraints	Recommended route and open questions
Process trial	Cycle or joint result needs validation	Samples, material/filler, fixture and test plan	Trial evidence and next-step decision
OEM processing	Outsource development or production	Released drawing, batch, inspection and delivery	Processed parts and agreed records
Retrofit / support review	Existing system or process issue	Equipment data, symptoms, history and target	Feasibility review and scoped recommendation

Start a focused discussion

Send the workpiece drawing, material, current/target process, complete load, production demand, installation site and required evidence. SYNHTE will identify the next technical decision before quotation.

05 / CONTACT

Henan Synthe Corporation

Direct company channels are printed on every page of this profile.

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Before quotation

Attach drawing, material, load layout, cycle target, capacity, utilities and acceptance method.

During review

Confirm assumptions, exclusions, supplied auxiliaries, interfaces and test conditions.

Before manufacture

Freeze the technical agreement, approved drawing, utility boundary and FAT plan.

Before shipment

Review FAT evidence, documents, open items, installation plan and SAT responsibilities.

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