

INDUSTRIAL BOILERS. ENGINEERING. RESEARCH.

Inside Packman

Boilers, thermal engineering and process equipment



Packman boilers on heavy-haul trailers outside the factory. Company archive photograph.

1,300

steam boilers annually*

1975

year established

2

core steam boiler designs

Packman is an Iranian manufacturer of industrial boilers and thermal equipment. Its portfolio spans fire-tube and water-tube steam boilers, condensing and hot-water systems, and process equipment for refinery and petrochemical applications.

* Approximate annual steam boiler production across fire-tube and water-tube operations, supplied by company management.

Manufacturing at scale

More than five decades of company history, a multi-location presence in Iran and a portfolio spanning steam, hot water and process heating.

THE COMPANY

Founded in 1975, Packman brings together industrial boiler production and thermal equipment manufacturing. Company management reports approximately 1,300 steam boilers produced each year across its fire-tube and water-tube operations. Its established production base combines the manufacture of steam equipment with a broader thermal and process-equipment portfolio for industrial applications.

AN INTEGRATED THERMAL PERSPECTIVE

The portfolio extends from steam boilers to hot-water and condensing boilers, thermal-oil heaters, heat-recovery equipment, heat exchangers and pressure vessels. This breadth supports a discussion about the complete thermal duty: what the process needs, how heat is generated and transferred, and where recovery or system improvements may be appropriate.

PRESENCE IN IRAN

The company website lists a Tehran head office and factories in Isfahan, Vilashahr and Parand. This industrial footprint forms the background to Packman's boiler and thermal equipment business. English-language company materials provide an accessible introduction for overseas customers and technical partners.

TEHRAN

Head office

ISFAHAN

Factory

VILASHAHR

Factory

PARAND

Factory

The company reference list covers equipment and projects across industrial sectors, including refinery and petrochemical services, power generation and food processing. Selected references and installation photographs follow in this profile. [9]

Sources: company background [1], contact page [3] and English website [8].

A broad thermal portfolio

Steam generation is at the centre of Packman's manufacturing story, alongside equipment for hot-water production, heat recovery and process heating.



Production hall: boiler shells and assemblies at different stages of manufacture.

FIRE-TUBE STEAM BOILERS

Shell boilers with hot gases passing through tubes for steam generation.

WATER-TUBE STEAM BOILERS

Water-tube systems for steam and industrial process applications.

HOT-WATER & CONDENSING

Hot-water boilers and condensing boiler development.

THERMAL-OIL HEATERS

Equipment for process heating with thermal fluids.

HEAT RECOVERY & EXCHANGE

Heat-recovery equipment and heat exchangers.

PRESSURE VESSELS

Manufactured vessels for industrial and process-equipment duties.

System-level discussion

Refinery and petrochemical applications include heat exchangers, pressure vessels, process heating and steam utilities. Equipment scope and interfaces are defined for each project. Sources [2, 8, 9].

Two boiler architectures

Packman manufactures both fire-tube and water-tube steam boilers. The choice starts with the required steam conditions, fuel, operating pattern and project constraints.

Fire-tube

Heat passes through tubes surrounded by water.

Packman's published three-pass design is a wet-back boiler. Its product description lists natural gas, diesel and heavy-oil firing options, together with hinged access doors. These are useful starting points for discussing fuel selection, access for inspection and the practical layout of an installation. [4]

Water-tube

Water circulates through tubes exposed to the heat source.

Packman's water-tube information describes natural- and forced-circulation arrangements. It identifies gaseous and liquid fuel options and treats capacity as a project-specific design question. A technical enquiry should therefore state the intended duty and operating conditions before a configuration is selected. [5]

DEFINE THE DUTY BEFORE SELECTING THE EQUIPMENT

A useful project brief identifies steam flow, operating pressure, required steam condition, fuel specification and the normal load profile. Feedwater quality and temperature, condensate return and available utilities also belong in the discussion. These inputs help the parties agree on a technical basis before commercial comparisons are made.

AGREE THE COMPLETE SUPPLY BOUNDARY

For an international project, the enquiry should separate the boiler itself from the burner, feedwater equipment, controls, water treatment, heat recovery and site connections. The proposed package can then be reviewed against the required operating duty, inspection documentation, installation constraints and service expectations. This is a recommended enquiry framework; the contracted scope is agreed for each project.

Product references [4, 5] and company steam-boiler information [6].

From fabrication to dispatch

The factory photographs provide a direct view of Packman's manufacturing environment: boiler shells, tube assemblies, production-hall space and equipment prepared for transport.



Equipment prepared for dispatch outside a Packman factory building.

WHAT THE PHOTOGRAPHS SHOW

The fabrication image on page 6 shows shells and components arranged within a production hall. The panoramic image on page 3 provides a broader view of multiple boiler assemblies at different stages of work. The dispatch photograph above shows packaged equipment on a transport vehicle outside a building marked Packman Co.

BUILDING A DOCUMENTED FACTORY FEATURE

These images can support a manufacturing feature when paired with an explanation from the relevant technical team. An editor can explore how a design moves through fabrication and assembly, what documentation accompanies the selected equipment, and how preparation for delivery is coordinated. Image captions and any project-specific details can be agreed before publication.

Original photograph downloads and factory video links are available through the media room. Interviews with management and technical colleagues can be coordinated through the contact on page 10.

Boilers in industrial settings

Selected company photographs of boiler equipment, installations and fabrication. [9]



Boiler equipment and auxiliary vessels



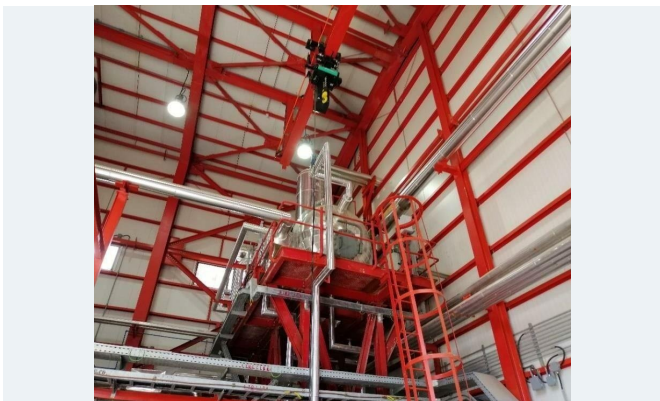
Boiler shells and components in fabrication



Installed equipment within a boiler hall



Boiler front and surrounding access structure



Equipment installed in an industrial building



Boiler shell, platform and overhead pipework

Photographs from company materials and the reference collection; captions describe the visible equipment.

Refinery & process experience

Packman's capabilities extend into refinery and petrochemical service: heat exchangers, pressure vessels and thermal equipment for process duties. Its reference collection documents projects in Iran and overseas. [9]



Boiler equipment from the company reference gallery; these images are not assigned to the named projects below.

TEHRAN OIL REFINING CO.

High-pressure heat exchangers

The reference lists design and fabrication of 19 high-pressure heat exchangers for the North and South Isomax units, delivered in 2012.

ABADAN OIL REFINERY

Shell-and-tube heat exchangers

The reference records thermal design and fabrication for refinery cooling cycles and identifies the equipment as delivered.

MARMUM DAIRY, DUBAI

United Arab Emirates

Named in the company's international project list, representing a dairy-industry reference in the UAE.

MIRPAK, SA'ATLI

Azerbaijan

Named in the international project list as a tomato-sauce manufacturing reference in Azerbaijan.

Additional international entries include a noodle-manufacturing factory in Dar es Salaam, Tanzania; Edupa Chemical Factory in Cairo, Egypt; and Khalij Concrete in Doha, Qatar. [9]

Source: Reference List 2026, printed pages 21, 38 and 56-57. Status is as reported in that collection.

Research behind the design

Published in Energy in 2024, the study combines computational modelling with experimental validation. [7]

ENERGY / VOLUME 307 / 2024 / ARTICLE 132675

Numerical simulations and an experimental study for optimal design of a 1500 kW water-tube condensing boiler

[Read the published paper | doi.org/10.1016/j.energy.2024.132675](https://doi.org/10.1016/j.energy.2024.132675)

580 kW

experimental validation

1,500 kW

design study

12

configurations compared

WHAT THE STUDY INVESTIGATED

The authors used ANSYS Fluent to investigate gas-side and water-side behaviour. They compared combustion-chamber dimensions and spiral-coil geometry, examining heat transfer, flue-gas temperature and pressure losses.

WHY IT MATTERS TO AN INDUSTRIAL AUDIENCE

The paper offers a technical interview topic: how modelling and measurements inform boiler geometry. Experimental validation used a 580 kW boiler; the 1,500 kW unit was the subject of the design study.

Authors

Keyvan Ahmadi Babadi, Hossein Khorasanizadeh, Ghorbanali Mirzazadeh and Soheil Mirzazadeh.

Connect with Packman

Packman welcomes technical and commercial enquiries from industrial customers, engineering partners and specialist media. The company reference list includes projects in the United Arab Emirates, Azerbaijan, Qatar, Egypt, Tanzania and other international markets. [9]

FOR CUSTOMERS AND ENGINEERING PARTNERS

The starting point is a defined thermal requirement. Share the application, steam or heat duty, operating conditions, fuel and project location so the relevant product family and discussion can be identified. An early exchange can also clarify the supply boundary, documentation needs, local interfaces and the parties responsible for installation and service.

For prospective representatives or industrial partners, useful topics include target sectors, active project opportunities, technical enquiry handling, market documentation and after-sales coordination. The aim is to establish a practical basis for collaboration and agree the next technical or commercial step.

FOR EDITORS AND TECHNICAL PUBLICATIONS

01 Inside Packman: the manufacturing story

A factory feature connecting the company's production scale with real photographs, product development and a management interview.

02 Fire-tube and water-tube in practice

A technical interview about how operating requirements influence boiler selection, package definition and maintenance access.

03 Engineering supported by research

A discussion with the paper's co-author about validation, CFD and the design decisions examined in the published study.

For an editorial proposal, specify the intended audience, preferred angle, interview format, required illustrations and deadline. Packman can coordinate the relevant participants and supporting company materials.

Start a conversation

For editorial interviews, technical background, manufacturing features and international commercial enquiries.

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MEDIA ASSETS & SOCIAL CHANNELS

[Media room: photographs, video links and research](#)

[Soheil on LinkedIn](#)

[Soheil on Instagram](#)

[Packman on Instagram](#)

[Factory video 1](#)

[Factory video 2](#)

REFERENCES

[\[1\] Company background](#)

[\[2\] English catalogues](#)

[\[3\] Offices and factories](#)

[\[4\] Three-pass fire-tube boiler](#)

[\[5\] Water-tube boiler](#)

[\[6\] Steam-boiler information](#)

[\[7\] Energy research article](#)

[\[8\] English company website](#)

[9] Packman Reference List 2026 (company-provided document), including selected project entries and photographs. Sources [4-6] are Persian-language product pages. Source [7]: Energy 307 (2024), article 132675. The complete paper is available through its publisher; it is not reproduced in this profile.

Company history, product details and international examples are drawn from Packman materials. The annual production figure is supplied by company management. Factory photographs are company-provided. Selected project references and additional installation photographs are taken from the company-provided Reference List 2026 [9].

Prepared October 2026 | Resource titles and contact details are clickable.