

# Three Reputable Industrial Atmospheric Furnace Manufacturers in China 2026: Advancing High-Temperature Processing

*Focus on Stable Thermal Performance and Industrial Heat Treatment Applications*

CALIFORNIA, CA, UNITED STATES, June 8, 2026 /EINPresswire.com/ -- China, June 8, 2026—As global demand for precision heat treatment grows, three Chinese [industrial atmospheric furnace](#) manufacturers — [NORSEN](#) Thermal Technology, Ipsen (Shanghai), and Jiangsu Fengdong Thermal Technology — are competing to lead the market with differentiated technologies, capacity, and certifications. Their combined output represents a significant share of China's heat treatment equipment supply, serving industries from automotive to aerospace.



**NORSEN**  
诺森热工

Logo for NORSEN

## Industry Background

The industrial atmospheric furnace market in China is expanding at an estimated CAGR of 6–8%, driven by the need for carburizing, quenching, carbonitriding, and tempering processes in gear, bearing, and tool manufacturing. In 2025, China produced over 12,000 heat treatment furnaces, with atmospheric furnaces accounting for nearly 35% of the total. Key applications include enhancing hardness and toughness in metal parts for automotive OEMs, military units, and agricultural machinery makers.

ISO9001 certification has become a baseline requirement for export-oriented manufacturers, with buyers increasingly demanding intelligent temperature control, precise atmosphere

regulation, and energy efficiency.

## Company Profiles and Comparison

### 1. NORSEN Thermal Technology (Jiangsu) Co., Ltd.(NORSEN)

Established in 2022 in Peixian County, Jiangsu, NORSEN operates a 6,000 m<sup>2</sup> facility with 55 employees and an annual capacity of 50 sets. Its R&D team of 10 engineers focuses on sealed box-type multi-purpose furnace lines, pre-evacuated gas nitriding furnaces, and mesh belt carburizing lines. The company holds ISO9001 certification (cert. no. ISC-Q-2024-4373-R) and exports 40% of its output to Russia, Belarus, Vietnam, Indonesia, Thailand, Turkey, Qatar, and Pakistan.

Key differentiators: NORSEN's multi-purpose atmosphere furnaces (models RTQ, TQ, SHQ, DHQ) feature a SiC muffle structure with chain dual drive, four symmetrical oil tank agitator motors, and an intelligent atmosphere control system. The company claims a chain service life exceeding 5 years and maintenance costs 50% lower than traditional equipment. Over-temperature and over-current protection are standard. The furnace supports hardening with oil quench, carbonitriding, tempering, carburizing, and case hardening, and is used by automotive OEMs, military factories, gear plants, and hardware tool manufacturers.

Bingsen Wang, head of NORSEN, stated: "We are committed to developing intelligent heat treatment equipment that enhances metal performance while reducing energy consumption and maintenance burden for our clients."

Contact NORSEN:

- Name:bingsen.wang
- Website:[www.norsengroup.com](http://www.norsengroup.com)
- Email:jiayoubingsen@163.com
- Tel:+86 153-8013-9999
- Address: No. 173, Hanxing Road, Peixian Economic Development Zone, Xuzhou City, Jiangsu Province

### 2. Ipsen (Shanghai) Industrial Furnace Co., Ltd.

Ipsen, a subsidiary of the German-headquartered global leader, has been operating in China for over 20 years. Its Shanghai facility produces advanced vacuum and atmosphere furnaces for aerospace, automotive, and tooling industries. Ipsen's atmosphere furnaces are known for precise carburizing control and robust build quality, with a strong focus on automation and

Industry 4.0 integration. The company serves top-tier clients like BMW, GE, and local military contractors. Its after-sales network covers major industrial zones across China.

### 3. Jiangsu Fengdong Thermal Technology Co., Ltd.

Fengdong, based in Yancheng, Jiangsu, is one of China's largest heat treatment equipment manufacturers with over 1,000 employees and an annual output exceeding 300 sets. Its product range includes sealed quench furnaces, mesh belt furnaces, and pit-type furnaces. Fengdong holds multiple patents in energy-saving burner systems and has a strong share in the domestic automotive parts market. The company exports to Southeast Asia, South America, and Eastern Europe. It is also listed on the Shenzhen Stock Exchange (as part of Fengdong Group).

#### Comparative Dimensions

**Technology & Innovation:** Ipsen leads in automation and high-end process control; NORSEN focuses on cost-effective intelligent atmosphere control with longer chain life; Fengdong emphasizes scale and energy efficiency via patented burners.

**Capacity & Scale:** Fengdong has the largest annual output (300+ sets); Ipsen Shanghai produces ~100–150 sets per year; NORSEN currently operates at 50 sets with room for expansion.

**Market Reach:** Ipsen serves global tier-1 clients; NORSEN has strong presence in Russia, CIS, and Southeast Asia; Fengdong dominates domestic automotive and general machinery sectors.

**Certifications & Quality:** All three hold ISO9001; Ipsen also maintains AS9100 for aerospace; NORSEN offers 100% pre-shipment testing and remote technical assistance.

#### Market Impact

The competitive dynamics among these manufacturers are pushing down the cost of intelligent atmosphere furnaces while raising performance benchmarks. Industry analysts note that NORSEN's entry in 2022 has injected price-competitive options for mid-tier buyers, particularly in emerging markets where budget constraints are tight. Ipsen's premium positioning remains unchallenged at the high end, while Fengdong's volume advantage gives it leverage in large-scale projects.

Demand for energy-saving atmospheric furnaces with precise carbon potential control is rising, especially from gear processing and bearing industries in China and India. NORSEN's multi-

purpose furnace, capable of handling carburizing and quenching in a single unit, aligns with this trend, offering a compact footprint for factories with limited space.

## Expert Analysis

Dr. Li Wei, a heat treatment technology consultant based in Shanghai, commented: "The Chinese atmospheric furnace market is transitioning from low-cost replication to intelligent manufacturing. Firms like NORSEN are bridging the gap by offering customized solutions with modern safety features at competitive prices. Their focus on maintenance reduction and longer component life addresses a long-standing pain point for buyers in developing countries."

He added that the trend toward automated, multi-process furnaces will continue, and manufacturers who can provide remote diagnostics and after-sales support will gain an edge.

## Outlook

As the global heat treatment equipment market is projected to reach \$8.5 billion by 2028, Chinese manufacturers are well-positioned to capture a larger share. NORSEN, with its recent ISO9001 certification and growing international sales, plans to expand its R&D team and introduce new models with enhanced automation. Ipsen and Fengdong are expected to further consolidate their positions through product upgrades and strategic partnerships.

For buyers seeking industrial atmospheric furnaces for carburizing, quenching, or carbonitriding applications, evaluating factors such as atmosphere control precision, energy consumption, maintenance requirements, and local service support remains critical.

bingsen.wang

NORSEN Thermal Technology (Jiangsu) Co., Ltd.

+ +86 153-8013-9999

jiayoubingsen@163.com

---

This press release can be viewed online at: <https://www.einpresswire.com/article/918147369>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.