

Global Air-cooled Induction Heating System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC6E5406262BEN.html>

Date: February 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: GC6E5406262BEN

Abstracts

The global Air-cooled Induction Heating System market size is expected to reach \$ 712 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

Air-cooled induction heating systems are an important branch of induction heating equipment. They achieve non-contact heating of metal materials based on the electromagnetic induction eddy current effect. Forced air cooling by a fan is the core heat dissipation method, replacing the closed coolant circulation loop of a water-cooling system. Through the forced convection structure of heat dissipation fins and a fan, the system controls the temperature rise of the core components such as the frequency converter, induction coil, and power devices, ensuring stable operation of the equipment.

In 2025, the global production of air-cooled induction heating systems was 44,600 units, with an average price of US\$12,000 per unit.

Upstream of the air-cooled induction heating system mainly includes power semiconductor devices, IGBT and MOSFET modules, high-frequency power control chips, copper and magnetic materials, insulation and high-temperature structural components, as well as electronic parts for temperature control and protection. These upstream elements determine power density, system stability, reliability and overall cost. Downstream applications represent the core demand and are widely distributed across metal heat treatment, welding and brazing, surface hardening, thermal fitting, mold preheating, hardware processing, automotive components, home appliance manufacturing and maintenance services. Compared with water-cooled solutions, end users focus more on ease of installation, maintenance cost, environmental adaptability

and total cost of ownership. Air-cooled systems show clear advantages in low to medium power, distributed workstations and mobile applications, making them especially suitable for small and medium manufacturers, repair workshops and water-restricted environments. Industry trends include continuous progress in high-frequency and high-efficiency power design, improved compactness and modularity, wider adoption of intelligent temperature control and digital power regulation, and ongoing efforts to reduce noise and energy consumption while maintaining performance. Key drivers are growing demand for automation and precision processing, rising requirements for energy efficiency and green manufacturing, more decentralized production scenarios, and user preference for low-maintenance and fast-deployment solutions. Major constraints come from cooling capacity limitations that restrict maximum power, stability challenges under continuous high-load operation, stricter noise control requirements, and ongoing competition from water-cooled systems in heavy industrial applications. Gross margins for air-cooled induction heating systems are generally at a medium level, typically ranging from 25% to 40%. Standardized products and scale production help maintain stable margins, while highly customized or niche-application systems can achieve higher margins but involve increased R&D and technical support costs.

This report studies the global Air-cooled Induction Heating System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air-cooled Induction Heating System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Air-cooled Induction Heating System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air-cooled Induction Heating System total production and demand, 2021-2032, (Units)

Global Air-cooled Induction Heating System total production value, 2021-2032, (USD Million)

Global Air-cooled Induction Heating System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Air-cooled Induction Heating System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Air-cooled Induction Heating System domestic production, consumption, key domestic manufacturers and share

Global Air-cooled Induction Heating System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Air-cooled Induction Heating System production by Power, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Air-cooled Induction Heating System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Air-cooled Induction Heating System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SKF, Schaeffler, Timken, Illinois Tool Works, ENRX, HAIMER, UltraFlex Power Technologies, Ambrell, Helmut Diebold, Bilz, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Air-cooled Induction Heating System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Power, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Air-cooled Induction Heating System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air-cooled Induction Heating System Market, Segmentation by Power:

Less than 1kW

1-10kW

10-50kW

More than 50kW

Global Air-cooled Induction Heating System Market, Segmentation by Induction Heating Frequency:

Less than 10 KHz

10–100 KHz

More than 100 KHz

Global Air-cooled Induction Heating System Market, Segmentation by Structure:

Integrated

Split Type

Global Air-cooled Induction Heating System Market, Segmentation by Induction Coil Type:

Solenoid Coil

Planar Coil

Twin Coil

Custom-Shaped Coil

Global Air-cooled Induction Heating System Market, Segmentation by Application:

General Hardware Processing

Machinery Assembly and Repair

Electronic Component Manufacturing

Jewelry and Crafts Processing

Other

Companies Profiled:

SKF

Schaeffler

Timken

Illinois Tool Works

ENRX

HAIMER

UltraFlex Power Technologies

Ambrell

Helmut Diebold

Bilz

Induction Innovations

Simatec

Bega

Beta Tools

Key Questions Answered:

1. How big is the global Air-cooled Induction Heating System market?
2. What is the demand of the global Air-cooled Induction Heating System market?
3. What is the year over year growth of the global Air-cooled Induction Heating System market?
4. What is the production and production value of the global Air-cooled Induction Heating System market?
5. Who are the key producers in the global Air-cooled Induction Heating System market?
6. What are the growth factors driving the market demand?

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