

Global Hot Air Reflow Oven Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hot Air Reflow Oven market size is expected to reach \$ 734 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

In 2025, global Hot Air Reflow Oven production reached approximately 11347 units, the average price is 48 k usd/unit. There is a heating circuit inside the hot air reflow oven, which heats air or nitrogen to a high enough temperature and blows it to the circuit board that has attached components, so that the solder on both sides of the components melts and bonds with the motherboard. The advantages of this process are that the temperature is easy to control, oxidation can be avoided during the soldering process, and the manufacturing cost is easier to control.

Market Concentration and Key Players:

Internationally, the market concentration of hot air reflow furnaces is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, large manufacturers such as Heller Industries and Rehm Thermal Systems; from a domestic perspective, manufacturers of hot air reflow furnaces include Cologne Automation Equipment and Jintuo Shares.

Manufacturing Processes and Market Trends:

The core of the hot air reflow furnace manufacturing process lies in the precise thermal field control and automation system integration, the furnace body is usually made of stainless steel and other high temperature resistant materials to ensure long-term thermal stability, internal through multi-temperature zone independent control heater and efficient fan to achieve forced convection of hot air, thus forming a uniform

temperature distribution in the welding process. Advanced equipment integrates thermocouples and solid state relays for real-time temperature feedback and power regulation, and is equipped with conveyor speed control and nitrogen protection systems to accurately manage critical process stages such as preheating, reflow and cooling to meet the stringent requirements of lead-free soldering for high temperature and oxidation resistance.

In terms of market, the global demand for hot air reflow furnaces has grown steadily, especially in Asia, which is mainly due to the strong pull of high-end electronic manufacturing equipment by industries such as 5G communication, artificial intelligence Internet of Things and new energy vehicles. The future trend focuses on intelligence and high performance, and the equipment is deeply integrated with real-time monitoring and digital twin technology to realize self-optimization of process parameters, and to develop towards higher temperature uniformity (such as $\pm 1\%$) and faster cooling rate. Meanwhile, local enterprises continue to break through in market share by virtue of technology accumulation, promoting the industry to evolve towards energy-saving, environmental protection and flexible manufacturing.

This report studies the global Hot Air Reflow Oven production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hot Air Reflow Oven 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 Hot Air Reflow Oven that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hot Air Reflow Oven total production and demand, 2021-2032, (Units)

Global Hot Air Reflow Oven total production value, 2021-2032, (USD Million)

Global Hot Air Reflow Oven production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hot Air Reflow Oven consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hot Air Reflow Oven domestic production, consumption, key domestic manufacturers and share

Global Hot Air Reflow Oven production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hot Air Reflow Oven production by Structure, production, value, CAGR,

2021-2032, (USD Million) & (Units)

Global Hot Air Reflow Oven production by Application, production, value, CAGR,
2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hot Air Reflow Oven 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 Heller Industries, Rehm Thermal Systems, Kurtz Ersä, BTU International, TAMURA Corporation, ITW EAE, SMT Wertheim, Senju Metal Industry, Folungwin, Bungard Elektronik, 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 Hot Air Reflow Oven market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Structure, 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 Hot Air Reflow Oven Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hot Air Reflow Oven Market, Segmentation by Structure:

Horizontal

Vertical

Global Hot Air Reflow Oven Market, Segmentation by Gaseous State:

Air Reflow

Nitrogen Reflow

Global Hot Air Reflow Oven Market, Segmentation by Integration:

Alone

In-line

Global Hot Air Reflow Oven Market, Segmentation by Application:

Telecommunication

Consumer Electronics

Automotive

Others

Companies Profiled:

Heller Industries

Rehm Thermal Systems

Kurtz Ersä

BTU International

TAMURA Corporation

ITW EAE

SMT Wertheim

Senju Metal Industry

Folungwin

Bungard Elektronik

Shenzhen JT Automation Equipment

JUKI

SEHO Systems

Suneast

Shenzhen ETA Technology

Papaw Technology

Eightech Tectron

Essemtec

Key Questions Answered:

1. How big is the global Hot Air Reflow Oven market?

2. What is the demand of the global Hot Air Reflow Oven market?
3. What is the year over year growth of the global Hot Air Reflow Oven market?
4. What is the production and production value of the global Hot Air Reflow Oven market?
5. Who are the key producers in the global Hot Air Reflow Oven market?
6. What are the growth factors driving the market demand?

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