

Global Convection Reflow Soldering Oven Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Convection Reflow Soldering Oven market size is expected to reach \$ 635 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

In 2025, global Convection Reflow Soldering Oven production reached approximately 5,500 units .

Convection reflow soldering ovens are key thermal equipment in electronic assembly used to complete the processes of solder paste melting, wetting, reflow, and cooling/curing. They are widely used in SMT PCB assembly, LED assembly, and advanced semiconductor packaging. Their working principle involves using a fan to drive hot air or nitrogen to circulate within different temperature zones, allowing the PCB and components to sequentially undergo preheating, isothermal control, reflow, and cooling processes according to a set temperature profile. Compared to earlier infrared heating methods, convection reflow soldering offers advantages in temperature uniformity, process window control, and adaptability to complex circuit boards, thus becoming the mainstream approach. Current equipment typically employs an online conveyor structure and can be expanded with features such as vacuum, dual-track, dual-chamber, and closed-loop convection control to meet high-density, high-reliability soldering requirements.

The convection reflow soldering oven industry chain can be divided into three main segments: upstream core components, midstream complete machine manufacturing and system integration, and downstream end-user applications. The upstream sector mainly includes heating modules, fans and duct systems, temperature and pressure sensors, conveying mechanisms, control software, electrical components, insulation

materials, and nitrogen/exhaust gas management units, among which thermal uniformity, closed-loop control accuracy, and equipment stability are key technological barriers. The midstream sector comprises equipment manufacturers and production line solution providers, competing on differentiated strategies around temperature zone design, conveying structures, energy consumption optimization, flux management, and equipment maintenance. The downstream sector covers consumer electronics, automotive electronics, industrial control, communication equipment, LEDs, servers, power modules, and advanced semiconductor packaging. As products evolve towards high-density packaging, thin substrates, large heat capacity boards, and high-reliability applications, downstream customers continuously increase their demands for temperature control accuracy, low oxidation, low void ratio, traceability, and equipment uptime.

The largest structural growth in the future convection reflow oven market will primarily come from AI-related demands, particularly in advanced packaging and highly complex AI server boards. The former is driven by the increasing requirements of AI chips for 2.5D/3D packaging, ultra-thin substrates, warp control, and low defect rates, leading to increased demand for vacuum reflow, flatness control, and longer temperature zone equipment. The latter is driven by the larger heat capacity, more complex board surfaces, and higher requirements for soldering consistency in AI server and data center boards, resulting in upgrades to high-end multi-temperature zone, strong closed-loop control, and heavy-duty board adaptation equipment. In contrast, traditional consumer electronics SMT remains the foundation, but high-end AI-related applications are more likely to become the main source of future price increases and profit growth.

The growth logic of the convection reflow oven market mainly comes from three aspects: First, the continuous miniaturization and high integration of electronic products drive the demand for higher precision thermal management; second, the expansion of automotive electronics, power devices, servers, and advanced packaging promotes the increased penetration rate of nitrogen-type, vacuum-type, and high-end multi-temperature zone equipment; and third, the increased focus of manufacturers on energy consumption, maintenance cycles, and production line uptime is prompting equipment upgrades towards lower power consumption, lower nitrogen consumption, longer maintenance intervals, and stronger digital control. Publicly available product roadmaps also show that manufacturers are strengthening closed-loop convection control, thin-board compatibility, heavy-duty board handling, dual-cavity design, and vacuum reflow capabilities. Overall, demand in the standard SMT field will remain stable, while high-reliability electronic and semiconductor packaging will become a more important source of structural growth, and the industry will continue to evolve towards high-end, energy-

saving, and intelligent technologies.

This report studies the global Convection Reflow Soldering Oven production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Convection Reflow Soldering Oven total production and demand, 2021-2032, (Units)

Global Convection Reflow Soldering Oven total production value, 2021-2032, (USD Million)

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

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

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

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

Global Convection Reflow Soldering Oven production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Convection Reflow Soldering 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 Rehm Thermal Systems, Kurtz Erska, BTU International, Heller Industries, Shenzhen JT Automation, TAMURA Corporation, ITW EAE, SMT Wertheim, Folungwin, Senju Metal Industry Co., Ltd, 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 Convection Reflow Soldering 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 Type, 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 Convection Reflow Soldering Oven Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Convection Reflow Soldering Oven Market, Segmentation by Type:

Less than 10 Heating Zones

10-20 Heating Zones

More than 20 Heating Zones

Global Convection Reflow Soldering Oven Market, Segmentation by Air Type:

Air Reflow Oven

Nitrogen Reflow Oven

Global Convection Reflow Soldering Oven Market, Segmentation by Vacuum Type:

Standard Convection Reflow

Vacuum Convection Reflow

Global Convection Reflow Soldering Oven Market, Segmentation by Application:

Telecommunication

Consumer Electronics

Automotive

AI

Others

Companies Profiled:

Rehm Thermal Systems

Kurtz Ersä

BTU International

Heller Industries

Shenzhen JT Automation

TAMURA Corporation

ITW EAE

SMT Wertheim

Folungwin

Senju Metal Industry Co., Ltd

JUKI

SEHO Systems GmbH

Suneast

EIGHTECH TECTRON

Antom Co., Ltd.

Shenzhen Haobao

Shenzhen KAIT

Key Questions Answered:

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

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