

Global Rapid Thermal Annealing (RTA) System Market Growth 2026-2032

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Abstracts

The global Rapid Thermal Annealing (RTA) System market size is predicted to grow from US\$ 1420 million in 2025 to US\$ 2303 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

Rapid Thermal Annealing (RTA) systems are high-temperature thermal processing devices used in semiconductor front-end manufacturing, power devices, compound semiconductors, MEMS, photovoltaics, and advanced packaging material processing. Their core function is to rapidly heat wafers or substrates to hundreds to over a thousand degrees Celsius in a controlled atmosphere or vacuum environment using heat sources such as halogen tungsten lamps, infrared lamps, lasers, or hot plates, followed by rapid cooling within seconds, milliseconds, or short periods. This allows for purposes such as doping activation, ion implantation damage repair, metal/semiconductor contact improvement, silicide formation, thin film densification, oxidation, nitriding, crystallization, and stress modulation.

This article falls under the broad category of statistics, and therefore also covers laser annealing equipment.

Rapid Thermal Processing / Rapid Thermal Annealing Systems, or RTP/RTA systems, are not the largest product category within semiconductor equipment. However, they are typical process-window-critical tools. Market demand is not driven solely by wafer fab capacity expansion, but more importantly by process upgrades in advanced logic, power devices, compound semiconductors, and specialty materials. SEMI expects global 300mm fab equipment spending to rise to USD 133 billion in 2026 and USD 151 billion in 2027, with incremental demand mainly coming from AI-driven advanced logic, memory, and regionalized capacity build-out. Yole also indicates that WFE visibility is

expected to improve in 2026 after a record level in Q4 2025. This means that demand elasticity for RTP/RTA systems will be more visible in advanced nodes, HBM/DRAM capacity expansion, specialty mature-node processes, and wide-bandgap power semiconductor production lines, rather than simply tracking the year-on-year fluctuation of total WFE spending.

From an application perspective, in advanced logic and memory manufacturing, RTP/RTA systems are mainly used for post-ion implantation dopant activation, source/drain annealing, silicide formation, contact resistance reduction, high-k dielectric treatment, and film densification. Key equipment requirements include ramp-up rate, temperature uniformity, overshoot control, within-wafer repeatability, particle control, and metal contamination control. In specialty processes such as SiC/GaN, power devices, and MEMS, the demand logic for RTA/RTP differs from that of advanced logic. SiC devices require a high-temperature annealing window, while ohmic contact formation and dopant activation are technically challenging. These applications place higher requirements on high-temperature stability, process atmosphere control, graphite or SiC-coated components, chamber cleanliness, and thermal stress control. GaN, MEMS, sensors, and optoelectronic devices, by contrast, place more emphasis on material compatibility, low-damage processing, and flexible multi-recipe capability for small-batch production.

By product segment, the market can be divided into three categories. The first is 300mm production-class lamp-based RTP systems, which are used in logic, memory, and mature-node production lines. Their competitive barriers lie in throughput, process stability, temperature-control algorithms, and long-term customer qualification. Representative suppliers include Applied Materials and Mattson Technology. Mattson's public materials show that its RTP platforms cover soak anneal, spike anneal, and millisecond flash anneal, using high-intensity lamp heating to achieve rapid heating above 1,200°C. The second category is laser annealing / millisecond annealing systems, which address requirements for lower thermal budget, shallower junctions, and ultra-short-duration high-temperature treatment. Veeco, through its acquisition of Ultratech, has established a position in Laser Spike Annealing. Its annual report emphasizes that laser annealing is used for dopant activation, contact resistance reduction, and material grain-structure control. The third category is R&D, pilot-line, and specialty-material equipment, supplied by companies such as Centrotherm, Annealsys, JTEKT Thermo Systems, CVD Equipment, UniTemp, and Plasma-Therm, covering 150mm/200mm wafers, compound semiconductors, MEMS, photovoltaics, and university or research institute applications.

From a competitive landscape perspective, production lines for advanced logic and memory tend to select proven platforms that have undergone long-term customer qualification, creating high entry barriers for latecomers. In contrast, specialty processes, SiC/GaN, MEMS, and R&D lines allow more participation from specialized equipment vendors. Customers in these segments place greater emphasis on temperature range, atmosphere compatibility, substrate size, process flexibility, and local service capability.

LP Information, Inc. (LPI) ' newest research report, the "Rapid Thermal Annealing (RTA) System Industry Forecast" looks at past sales and reviews total world Rapid Thermal Annealing (RTA) System sales in 2025, providing a comprehensive analysis by region and market sector of projected Rapid Thermal Annealing (RTA) System sales for 2026 through 2032. With Rapid Thermal Annealing (RTA) System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Rapid Thermal Annealing (RTA) System industry.

This Insight Report provides a comprehensive analysis of the global Rapid Thermal Annealing (RTA) System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Rapid Thermal Annealing (RTA) System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Rapid Thermal Annealing (RTA) System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Rapid Thermal Annealing (RTA) System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Rapid Thermal Annealing (RTA) System.

This report presents a comprehensive overview, market shares, and growth opportunities of Rapid Thermal Annealing (RTA) System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Lamp-based RTA

Laser RTA

Segmentation by Wafers:

200mm RTA

300mm RTA

Others

Segmentation by Application:

Silicon Wafers

Compound Wafers

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Applied Materials

Mattson Technology

Kokusai Electric

Veeco

Centrotherm

AnnealSys

JTEKT Thermo System

ECM

CVD Equipment Corporation

SemiTEq

Shanghai Wanye Enterprises Co., Ltd.

UniTemp GmbH

Plasma-Therm

Larcom Semiconductor Equipment

ZEUS Co., Ltd

Sumitomo Heavy Industries

SCREEN Semiconductor Solutions

Mitsui Group (JSW)

Shanghai Micro Electronics Equipment

DIT

Beijing U-PRECISION Tech

EO Technics

Chengdu Laipu Technology

ETA Semitech

Hans DSI

YAC BEAM

Key Questions Addressed in this Report

What is the 10-year outlook for the global Rapid Thermal Annealing (RTA) System market?

What factors are driving Rapid Thermal Annealing (RTA) System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Rapid Thermal Annealing (RTA) System market opportunities vary by end market size?

How does Rapid Thermal Annealing (RTA) System break out by Type, by Application?

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