

Global Rapid Thermal Annealing (RTA) System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Rapid Thermal Annealing (RTA) System market size was valued at US\$ 1494 million in 2025 and is forecast to a readjusted size of US\$ 2365 million by 2032 with a CAGR of 6.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Rapid Thermal Annealing (RTA) System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rapid Thermal Annealing (RTA) System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD\$/Unit), 2021-2032

Global Rapid Thermal Annealing (RTA) System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD\$/Unit), 2021-2032

Global Rapid Thermal Annealing (RTA) System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD\$/Unit), 2021-2032

Global Rapid Thermal Annealing (RTA) System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K USD\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rapid Thermal Annealing (RTA) System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rapid Thermal Annealing (RTA) System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Applied Materials, Mattson Technology, Kokusai Electric, Veeco, Centrotherm, AnnealSys, JTEKT Thermo System, ECM, CVD Equipment Corporation, SemiTEq, etc.

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

Market Segmentation

Rapid Thermal Annealing (RTA) System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Lamp-based RTA

Laser RTA

Market segment by Wafers

200mm RTA

300mm RTA

Others

Market segment by Application

Silicon Wafers

Compound Wafers

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rapid Thermal Annealing (RTA) System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rapid Thermal Annealing (RTA) System, with price, sales quantity, revenue, and global market share of Rapid Thermal Annealing (RTA) System from 2021 to 2026.

Chapter 3, the Rapid Thermal Annealing (RTA) System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rapid Thermal Annealing (RTA) System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Rapid Thermal Annealing (RTA) System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rapid Thermal Annealing (RTA) System.

Chapter 14 and 15, to describe Rapid Thermal Annealing (RTA) System sales channel, distributors, customers, research findings and conclusion.

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Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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