

Global Atomic Layer Deposition Equipment Market Size study & Forecast, by Application (Semiconductor and Electronics (including Computing Sector, Data Centers, and Consumer Electronics), Healthcare and Biomedical Applications, Automotive, Other Applications) and Regional Analysis, 2022-2029

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Abstracts

Global Atomic Layer Deposition Equipment Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2029. Atomic layer deposition, a cutting-edge deposition technique, allows for the precise deposition of ultra-thin films as thin as a few nanometers. ALD provides excellent thickness control and uniformity, as well as the ability to cover 3D structures with a conformal coating for high-aspect-ratio structures. The self-limiting nature of the process, as well as the associated capacity for conformal deposition, underpin its significance as a scaling and 3D enabler. The Atomic Layer Deposition Equipment market is expanding because of factors such as the rising growth across consumer electronics and growing demand from microelectronics.

According to India Cellular and Electronics Association in 2021, India's electronics exports is rising rapidly and get doubled in the past five years. In 2019 the revenue generation reached approximately USD 15 billion from the export of electronic devices. The source also states that major export items include smartphones with increased growth of about USD 3.8 billion in the last five years. Whereas rising demand from end-user industries and favorable initiatives by market players create lucrative opportunities for the market. However, higher costs associated due to effective deposition reactants and materials hampers the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Atomic Layer Deposition Equipment Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia Pacific dominated the market in terms of revenue, owing to the increasing growth across the electronics industry, rising demand and adoption of microelectronics. Whereas the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as rising consumer spending on electronics, and rising penetration and growth activities by market players.

Major market players included in this report are:

Applied Materials Inc.

Lam Research Corporation

Entegris Inc.

Veeco Instruments Inc.

Oxford Instruments PLC

Beneq Oy

Picosun Oy

ASM International

Tokyo Electron Limited

Kurt J. Lesker Company

Recent Developments in the Market:

In December 2021, Beneq, a pioneer in atomic layer deposition (ALD) industrial production, introduced two new products for semiconductor device fabrication, the Transform 300 and Prodigy. When Beneq introduced the highly successful Beneq Transform family of products, it transformed ALD cluster tools.

In September 2022, ACM Research, Inc., a provider of wafer processing solutions for semiconductor and advanced wafer-level packaging (WLP) applications, announced the addition of the Ultra Fn A furnace tool to its 300mm Ultra Fn furnace dry processing platform. The Ultra Fn A system expands ACM's extensive list of supported furnace applications to include thermal atomic layer deposition (ALD).

Global Atomic Layer Deposition Equipment Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Application:

- Semiconductor and Electronics
- Healthcare and Biomedical Applications
- Automotive
- Other Applications

By Region:

- North America
 - U.S.
 - Canada
- Europe
 - UK
 - Germany
 - France
 - Spain
 - Italy
- ROE
- Asia Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- RoAPAC
- Latin America

Brazil
Mexico
RoLA
Rest of the World

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