

Global Thin Film Deposition Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thin Film Deposition Equipment market size is expected to reach \$ 14016 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of Thin Film Deposition Equipment reached approximately 9,000 units, with an average global market price of around US\$300,000 to US\$5 million per unit. In the same year, the global total production capacity of Thin Film Deposition Equipment reached 11,200 units. The industry average gross profit margin of this product reached 30%. Thin film deposition equipment is a high-precision industrial device used to form uniform, controllable thickness thin film layers on substrate surfaces. It is widely used in semiconductor chips, photovoltaic modules, display panels, optoelectronic devices, and high-end material surface treatment. The equipment primarily utilizes technologies such as physical vapor deposition (PVD), chemical vapor deposition (CVD), atomic layer deposition (ALD), and sputtering deposition to deposit thin films of metals, insulators, or semiconductors, ensuring uniform film thickness, chemical purity, and adhesion, thus providing crucial support for the performance of downstream devices.

The thin film deposition equipment industry chain encompasses a complete ecosystem, from upstream material and core component supply to midstream equipment manufacturing and downstream application industries. The upstream sector includes suppliers of key raw materials and core components such as high-purity metal targets, chemical vapor deposition precursors, high-purity gases, vacuum pumps, plasma sources, sensors, and automated control systems. These suppliers directly impact equipment performance and the quality of deposited films. The midstream sector comprises thin-film deposition equipment manufacturers, responsible for integrating

PVD, CVD, ALD, sputtering, and other technologies into complete sets of equipment applicable to wafer, display panel, photovoltaic, or optoelectronic device production. They also provide process optimization and after-sales service, representing the link with the highest technological barriers in the industry chain. The downstream sector includes semiconductor wafer fabs, display panel manufacturers, photovoltaic module manufacturers, and optoelectronic and high-end functional materials companies. These companies rely on high-precision deposition equipment to ensure film uniformity, adhesion, and material properties, thereby improving product yield and performance. The entire industry chain forms a highly collaborative system of materials, equipment, and applications.

With the development of semiconductor processes towards advanced nodes of 3nm and below, the upgrading of display technologies, and the market expansion of photovoltaics and new electronic devices, the demand for thin-film deposition equipment continues to grow. High-precision, low-defect, high-throughput, and intelligent deposition equipment are becoming the industry trend. In particular, the application of atomic layer deposition (ALD) in chip extreme ultraviolet (EUV) processes, 3D NAND, and high-k metal gate materials has driven the market's high-end upgrade. Overall, the industry will maintain steady growth over the next 5–10 years, while the trend of domestic substitution is obvious.

This report studies the global Thin Film Deposition Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thin Film Deposition Equipment 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 Thin Film Deposition Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thin Film Deposition Equipment total production and demand, 2021-2032, (Units)

Global Thin Film Deposition Equipment total production value, 2021-2032, (USD Million)

Global Thin Film Deposition Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thin Film Deposition Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thin Film Deposition Equipment domestic production, consumption, key

domestic manufacturers and share

Global Thin Film Deposition Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thin Film Deposition Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thin Film Deposition Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thin Film Deposition Equipment 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 Applied Materials, Lam Research, Tokyo Electron Ltd., ASM International, WONIK IPS, TES, Aixtron, KLA, Veeco, Ulvac, 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 Thin Film Deposition Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Thin Film Deposition Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thin Film Deposition Equipment Market, Segmentation by Type:

PVD (Physical Vapor Deposition)

CVD (Chemical Vapor Deposition)

ALD (Atomic Layer Deposition)

Others

Global Thin Film Deposition Equipment Market, Segmentation by Equipment Structure:

Single-piece

Roll-to-roll

Others

Global Thin Film Deposition Equipment Market, Segmentation by Automation Level:

Semi-automatic

Fully Automatic

Global Thin Film Deposition Equipment Market, Segmentation by Application:

Semiconductors

Displays

Photovoltaics

Optoelectronics

MEMS

Others

Companies Profiled:

Applied Materials

Lam Research

Tokyo Electron Ltd.

ASM International

WONIK IPS

TES

Aixtron

KLA

Veeco

Ulvac

Evatec

JusungEngineering

Piotech Inc.

NAURA Technology

AMEC

ACM Research

Key Questions Answered:

1. How big is the global Thin Film Deposition Equipment market?
2. What is the demand of the global Thin Film Deposition Equipment market?
3. What is the year over year growth of the global Thin Film Deposition Equipment market?
4. What is the production and production value of the global Thin Film Deposition Equipment market?
5. Who are the key producers in the global Thin Film Deposition Equipment market?
6. What are the growth factors driving the market demand?

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