

# Global Vacuum Thin Film Deposition Machine 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 Vacuum Thin Film Deposition Machine market size was valued at US\$ 24540 million in 2025 and is forecast to a readjusted size of US\$ 38349 million by 2032 with a CAGR of 6.8% during review period.

In 2025, global Vacuum Thin Film Deposition Machine capacity is 60,000 units, with production reached approximately 39,600 units, with an average global market price of around US\$605,000 per unit. The market gross margin is mainly 35%-45%.

A Vacuum Thin Film Deposition Machine is equipment used to deposit thin films onto substrates under controlled vacuum conditions to achieve precise thickness, composition, and uniformity. By operating in a vacuum environment, these machines minimize contamination and enable stable film growth through technologies such as Physical Vapor Deposition (PVD), Chemical Vapor Deposition (CVD), and Atomic Layer Deposition (ALD). Vacuum thin film deposition machines are critical to manufacturing processes that require functional, optical, electrical, or protective coatings, and are widely applied across semiconductors, electronics, optics, energy storage, and advanced materials industries.

The industrial chain of vacuum thin film deposition machines comprises upstream components and materials, midstream equipment manufacturers, and downstream application industries. Upstream suppliers provide key subsystems such as vacuum pumps, valves, gauges, mass flow controllers, power supplies, deposition sources, plasma generators, heating and cooling units, and control electronics. High-purity target materials, precursor chemicals, process gases, and chamber materials are also

essential inputs.

Midstream players are equipment OEMs and system integrators responsible for chamber engineering, process integration, automation software, and system assembly. Core value creation lies in deposition accuracy, film uniformity, throughput, process stability, and the ability to tailor systems for specific technologies such as batch, inline, or roll-to-roll platforms.

Downstream demand comes from semiconductor fabrication, flat panel displays, optical coatings, lithium-ion batteries, composite current collectors, flexible electronics, and functional surface engineering. End users include device manufacturers, material processors, and specialized coating service providers, with installation, maintenance, upgrades, and process support forming important extensions of the value chain.

The market for vacuum thin film deposition machines is experiencing sustained growth, driven by structural demand from high-technology manufacturing sectors. Semiconductors remain the largest and most technologically demanding application, as advanced logic, memory, and power devices require increasingly precise and reliable thin film processes. Continuous investment in semiconductor fabrication and advanced packaging directly supports demand for high-performance deposition equipment. Energy-related applications are emerging as a key growth engine. Vacuum thin film deposition is increasingly used in lithium-ion batteries, composite current collectors, and next-generation energy storage technologies, favoring large-area and roll-to-roll platforms with high throughput and tight process control. At the same time, optical coatings, flexible electronics, and functional films for consumer and industrial products provide steady incremental demand. Technological trends are reshaping the competitive landscape. Customers are seeking higher integration of multiple deposition processes within a single platform, improved automation, digital process control, and lower total cost of ownership. Equipment reliability, scalability, and service capability are becoming as important as deposition performance itself. From a regional perspective, Asia-Pacific dominates the market due to its concentration of semiconductor, display, and battery manufacturing capacity. North America and Europe remain critical markets for advanced process development, high-end equipment, and research-driven demand. Looking ahead, competition will increasingly focus on technological differentiation, supply chain localization, and lifecycle service offerings, positioning vacuum thin film deposition machines as essential infrastructure for next-generation electronics, energy systems, and advanced materials manufacturing.

This report is a detailed and comprehensive analysis for global Vacuum Thin Film

Deposition Machine 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 Vacuum Thin Film Deposition Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Vacuum Thin Film Deposition Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Vacuum Thin Film Deposition Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Vacuum Thin Film Deposition Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/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 Vacuum Thin Film Deposition Machine
- 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 Vacuum Thin Film Deposition Machine 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, ULVAC, Lam Research, Oporun, Buhler Leybold Optics, Shincron, Von Ardenne, Evatec, Veeco Instruments, Hanil Vacuum, etc.

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

## **Market Segmentation**

Vacuum Thin Film Deposition Machine 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

PVD Equipment

CVD Equipment

Others

### Market segment by Equipment Structure

Batch Type

Inline Type

Roll to Roll

### Market segment by End User

R&D Type

Industrial Production Type

## Market segment by Application

Electronics and Semiconductors

Optics and Glass

New Energy Industry

Cutting Tools and Molds

Other Fields

## Major players covered

Applied Materials

ULVAC

Lam Research

Optorun

Buhler Leybold Optics

Shincron

Von Ardenne

Evatec

Veeco Instruments

Hanil Vacuum

BOBST

Satisloh

IHI

NAURA

Xiangtan Hongda Vacuum Technology Co.,Ltd

Platit

Lung Pien Vacuum Industry Co., Ltd

Beijing Powertech Technology Co., Ltd

SKY Technology Development Co., Ltd

Impact Coatings

HCVAC

Denton Vacuum

Guangdong Zhenhua Technology Co., Ltd

Mustang Vacuum Systems

Shenyang Keyou Vacuum

Piotech Inc

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 Vacuum Thin Film Deposition Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vacuum Thin Film Deposition Machine, with price, sales quantity, revenue, and global market share of Vacuum Thin Film Deposition Machine from 2021 to 2026.

Chapter 3, the Vacuum Thin Film Deposition Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vacuum Thin Film Deposition Machine 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 Vacuum Thin Film Deposition Machine 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 Vacuum Thin Film Deposition Machine.

Chapter 14 and 15, to describe Vacuum Thin Film Deposition Machine sales channel, distributors, customers, research findings and conclusion.

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