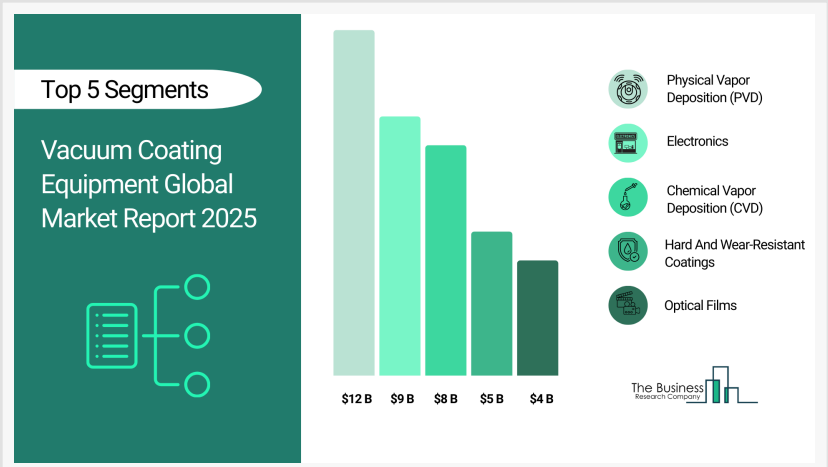
Vacuum Coating Equipment Market In 2029

The Business Research Company's Vacuum Coating Equipment Global Market Report 2026 - Market Size, Trends, And Global Forecast 2026-2035



Vacuum Coating Equipment Market Growth

LONDON, GREATER LONDON, UNITED KINGDOM, January 28, 2026 /EINPresswire.com/ -- Vacuum Coating Equipment Market to Surpass $34 billion in 2029. Within the broader Machinery industry, which is expected to be $5,141 billion by 2029, the vacuum coating equipment market is estimated to account for nearly 1% of the total market value.

Which Will Be the Biggest Region in the Vacuum Coating Equipment Market in 2029

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>
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Asia Pacific will be the largest region in the vacuum coating equipment market in 2029, valued at $12,470 million. The market is expected to grow from $8,749 million in 2024 at a compound annual growth rate (CAGR) of 7%. The strong growth is supported by the rising miniaturization of devices and expansion of the solar energy sector.

Which Will Be The Largest Country In The Global Vacuum Coating Equipment Market In 2029?
The USA will be the largest country in the vacuum coating equipment market in 2029, valued at $8,162 million. The market is expected to grow from $5,475 million in 2024 at a compound annual growth rate (CAGR) of 8%. The strong growth can be attributed to the rising miniaturization of devices and expansion of the solar energy sector.

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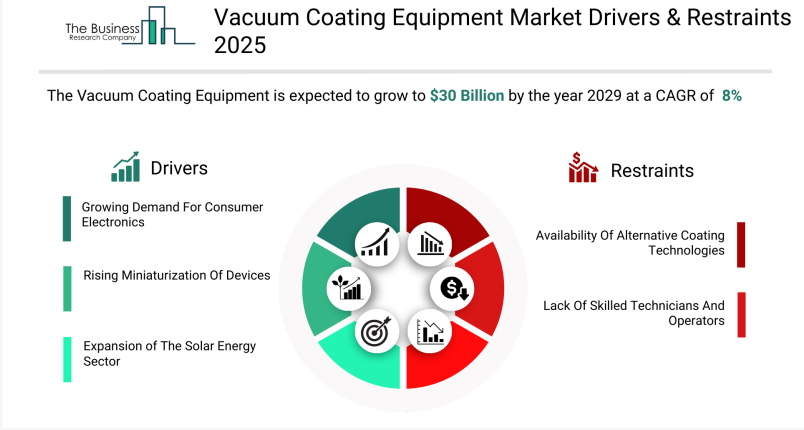
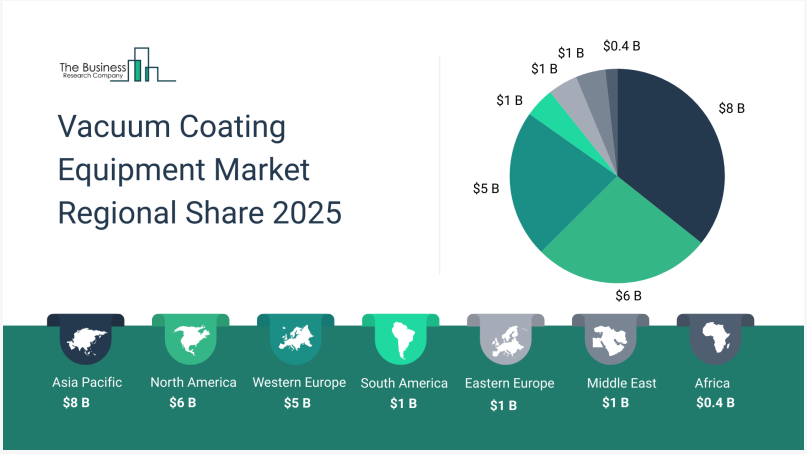
What will be Largest Segment in the Vacuum Coating Equipment Market in 2029?
The vacuum coating equipment market is segmented by product into physical vapor deposition

(PVD), magnetron sputtering and chemical vapor deposition (CVD). The Physical Vapor Deposition (PVD) market will be the largest segment of the vacuum coating equipment market segmented by product, accounting for 55% or $18,657 million of the total in 2029. The Physical Vapor Deposition (PVD) market will be supported by the rising need for environmentally friendly coating technologies, increasing demand for thin-film coatings in electronics and optics, growing applications in solar cells and architectural glass, enhanced durability and hardness properties, expanding semiconductor fabrication requirements, growing popularity of decorative finishes in consumer goods and preference for non-toxic coating alternatives over electroplating.



Vacuum Coating Equipment Market Forecast



Vacuum Coating Equipment Market Size

The vacuum coating equipment market is segmented by application into transparent electrical conductors, optical films, packaging, hard and wear-resistant coatings, energy (including hydrogen and battery applications), medical devices, wear-resistant tools, electronic components and devices and other applications. The electronic components and devices market will be the largest segment of the vacuum coating equipment market segmented by application, accounting for 23% or $7,847 million of the total in 2029. The electronic components and devices market will be supported by rising miniaturization of electronic circuits requiring precise thin-film deposition, increasing demand for conductive and dielectric layers in semiconductors, widespread use of coatings in MEMS, sensors and diodes, development of moisture and heat-resistant coatings for printed circuit boards, growing production of optical chips and photonic devices using sputtered or evaporated films and expanding use of advanced coatings for enhancing EMI shielding and thermal management in consumer electronics.

The vacuum coating equipment market is segmented By Vertical into electronics, automotive, healthcare, aerospace, opto-electronics, defense and other verticals. The electronics market will be the largest segment of the vacuum coating equipment market segmented by Vertical, accounting for 41% or $13,932 million of the total in 2029. The electronics market will be supported by increasing miniaturization of consumer electronics, growth in semiconductor production volumes, expanding use of display technologies including OLEDs and microLEDs,

need for dielectric and conductive layers in PCBs, increasing demand for wearables and flexible electronics, development of IoT-enabled smart devices and adoption of vacuum coatings in sensors and memory devices.

What is the expected CAGR for the Vacuum Coating Equipment Market leading up to 2029?
The expected CAGR for the vacuum coating equipment market leading up to 2029 is 8%.

What Will Be The Growth Driving Factors In The Global Vacuum Coating Equipment Market In The Forecast Period?
The rapid growth of the global vacuum coating equipment market leading up to 2029 will be driven by the following key factors that are expected to reshape advanced manufacturing, materials engineering, and surface-enhancement technologies worldwide.

Growing Demand For Consumer Electronics - The growing demand for consumer electronics will become a key driver of growth in the vacuum coating equipment market by 2029. As consumers seek more advanced, durable and aesthetically appealing devices, manufacturers increasingly rely on vacuum coating technologies like PVD and CVD to deliver high-quality, uniform and functional coatings. These coatings enhance the appearance, scratch resistance and longevity of products such as smartphones, laptops, tablets and wearable devices. For instance, the metal frame of a smartphone is often vacuum coated to provide a premium look and improved durability, while laptop shells benefit from coatings that resist corrosion and electromagnetic interference. As a result, the growing demand for consumer electronics is anticipated to contributing to a 2% annual growth in the market.

Rising Miniaturization Of Devices - The rising miniaturization of devices will emerge as a major factor driving the expansion of the vacuum coating equipment market by 2029. As electronic devices such as smartphones, wearables and sensors become increasingly compact, manufacturers require advanced vacuum coating technologies to deposit ultra-thin, uniform and high-performance coatings on intricate components. These coatings are essential for enhancing the durability, conductivity and functionality of miniaturized parts, especially in semiconductors and advanced displays. For example, the production of microchips for smartphones relies on PVD and CVD processes to achieve precise, defect-free coatings at nanoscale thicknesses. Consequently, the rising miniaturization of devices is projected to contributing to a 1.5% annual growth in the market.

Expansion of The Solar Energy Sector - The expansion of the solar energy sector will serve as a key growth catalyst for the vacuum coating equipment market by 2029, as demand for renewable energy rises, manufacturers are increasingly relying on vacuum coating technologies to produce high-quality, thin-film coatings essential for solar panels. These coatings enhance the efficiency, durability and performance of photovoltaic cells by ensuring uniform, contaminant-free layers that maximize light absorption and protect against environmental degradation. For example, thin-film solar cells use semiconductor materials like Copper Indium Gallium Selenide (CIGS) and Cadmium Telluride (CdTe) that require precise vacuum-deposited layers to function

effectively, making vacuum coating equipment indispensable in their production. Therefore, this expansion of the solar energy sector is projected to supporting to a 1.5% annual growth in the market.

Rising Demand For Sustainable And Eco-Friendly Coatings - The rising demand for sustainable and eco-friendly coatings will become a significant driver contributing to the growth of the vacuum coating equipment market by 2029. As industries and consumers increasingly prioritize environmental responsibility, manufacturers are turning to vacuum coating technologies because they offer cleaner, solvent-free alternatives to traditional wet coating methods, which often involve hazardous chemicals and generate significant waste. Vacuum processes like PVD and CVD enable the application of thin, high-performance coatings without harmful byproducts, aligning with global sustainability goals. For instance, the automotive industry is adopting vacuum-coated, chrome-like finishes that are free from toxic hexavalent chromium, reducing environmental impact while maintaining product quality. Consequently, the rising demand for sustainable and eco-friendly coatings is projected to contributing to a 1% annual growth in the market.

Access the detailed Vacuum Coating Equipment Market report here: https://www.thebusinessresearchcompany.com/report/vacuum-coating-equipment-global-market-report

What Are The Key Growth Opportunities In The Vacuum Coating Equipment Market in 2029? The most significant growth opportunities are anticipated in the physical vapor deposition (PVD) vacuum coating equipment market, the electronic components and devices vacuum coating equipment market, and the electronics vacuum coating equipment market. Collectively, these segments are projected to contribute over $13 billion in market value by 2029, driven by the rising demand for advanced thin-film deposition technologies, increasing integration of high-performance coatings in semiconductor and microelectronic manufacturing, and the expanding use of vacuum-based surface engineering solutions across consumer electronics and industrial applications. This surge reflects the accelerating shift toward miniaturized, durable, and energy-efficient components, supported by continuous innovation in coating processes that enhance precision, throughput, and material efficiency fueling transformative growth within the broader vacuum coating equipment industry.

The physical vapor deposition (PVD) vacuum coating equipment market is projected to grow by $5,400 million; the electronics vacuum coating equipment market by $4,674 million and the electronic components and devices vacuum coating equipment market by $2,607 million over the next five years from 2024 to 2029.

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