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Vacuum Coating Equipment Market - Forecasts from 2021 to 2026

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Abstracts

The vacuum coating equipment market is projected to grow at a CAGR of 6.61% to reach US$52.099 billion in 2026. The use of vacuum coating via physical vapor deposition and chemical vapor deposition processes among others contribute to providing eminent features such as better functionality, uniform coverage, durability, corrosion resistance along with providing a better aesthetic appearance. Vacuum coating includes the application of vacuum technology that implies a sub-atmospheric pressure environment and an atomic or molecular condensable vapor for depositing thin films and coating over the vacuum. The equipment also has an evaporation system, film-forming control system, vacuum main body cavity, and auxiliary pumping system. These vapor sources from the liquid or solid surface or chemical vapor process. The wide applications of the equipment have led to the augment of the market demand of the vacuum coating equipment across various end-user industry verticals which include electronics, automation, energy and power, and automobiles. The vacuum coating equipment market has encountered significant development over recent times and is expected to grow rapidly during the forecasted period. The Asia Pacific region has a significant share in the global vacuum coating equipment market owing to the prevailing electrical and electronic sector in the region.

The market is witnessing growth due to technological advancement. However, the technology implementation involves high installation and operational costs which is restricting the growth of the market of the vacuum coating equipment.

Major industry players of the vacuum coating market include B?hler Group, PVD Products, Inc., Applied Materials, Inc., Singulus Technologies AG, Kolzer S.R.L., T-M Vacuum Products, Inc., Scientific Vacuum Systems Ltd, CVD Equipment Corporation, AJA International, Inc, Semicore Equipment, Inc., OC Oerlikon Management AG,

Mustang Vacuum Systems, Izovac, IHI Corporation, Bl?sch Group, and Miba AG among others.

Market Drivers.

The vacuum coating equipment market is witnessing growth due to rapid advancement in the technology and electronics industry on account of increasing investment in the electronics sector that is augmenting the market of the vacuum coating equipment. Vacuum coating equipment is increasingly considered as the alternative for electroplating. The technology advancement is offering added benefits to the products over the conventional coating methods with features such as scratch protection, better shelf life, and brighter colors. The equipment is fulfilling almost every environmental regulation and is eco-friendly in nature. This is encouraging the market players of the vacuum coating equipment to focus on the technological innovations and the products that will enhance their market share. Further, the market players are implementing the strategies such as cost optimization, geographic expansion, and strategic acquisition to diversify their product portfolio. The market growth is also being driven by its wide applications in various fields such as cutting tools, gas sensors, microelectronics, magnetic films, medical equipment, polymerization, opto storage devices, and integrated circuits.

Segment Analysis.

By application, the vacuum coating equipment market is segmented as transparent electrical conductors, optical films, packaging, hard and wear-resistant coatings, and others.

The vacuum coating equipment market by process is classified as Physical Vapor Deposition (PVD), Chemical Vapor Deposition (CVD), and others. Physical Vapor Deposition (PVD) is expected to expand rapidly during the forecasted period. It is an advanced plasma coating-based deposition technology that offers various advantages such as superior hardness, resistance to oxidation, robust wear protection, and low friction values. PVD has a minimum initial cost than chemical vapor deposition technology. Whereas the Chemical Vapor Deposition (CVD) is predicted to witness moderate growth during the forecasted period. CVD aids are forming thin-film coating and are extensively used in metal forming tools.

Whereas by type, the vacuum coating equipment market is segmented into evaporation type, sputtering type, and others.

The vacuum coating equipment market by industry vertical is segmented as electronics, automotive, power, healthcare, and others. The electronics segment holds the major share of the market by equipment. The rapid advancement and increase investment in the electronics industry are leading to the growth in the vacuum coating equipment market. The technology is offering additional benefits to the product by offering scratch protection, brighter colors, and better shelf life. The booming industry of electronics is offering prospects for magnetron sputtering applications, chip carriers, and microelectronic circuits. The magnetron squirting end-users are driving the market during the forecasted period.

Regional Analysis.

The market of the vacuum coating equipment based on region is segmented as North America, South America, Europe, Asia Pacific, Middle East and Africa. The Asia Pacific region holds the major share in the market of vacuum coating equipment and is expected to continue dominance during the forecasted period. This is mainly due to the prevailing electronic and electrical sector in the region. Also, the rise in investment and government initiatives regarding digital skills is further expected to augment the market growth for vacuum coating equipment during the forecasted period. The rise in the initiatives regarding the improvement of the digital literacy skills on smartphones and other devices is attracting FDI into the electrical and electronics sector which is further augmenting the vacuum coating equipment demand growth. The Middle East region is expected faster growth rate due to favorable government policies.

COVID-19 Impact.

The pandemic has impacted every industry such as food & beverage, technology, healthcare among other industries. The unstable production and disturbed distribution channel are the major factors that have negatively impacted the vacuum coating equipment market.

Segmentation

By Application

Transparent Electrical Conductors

Optical Films

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- Packaging
- Hard and Wear-Resistant Coatings
- Others

By Process

- Physical Vapor Deposition (PVD)
- Chemical Vapor Deposition (CVD)
- Others

By Types

- Evaporation Type
- Sputtering Type
- Others

By Industry Vertical

- Electronics
- Automotive
- Power
- Healthcare
- Others

By Geography

- North America

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- USA
- Canada
- Mexico

South America

- Brazil
- Argentina
- Others

Europe

- Germany
- Spain
- United Kingdom
- France
- Others

Middle East and Africa

- Saudi Arabia
- South Africa
- Others

Asia Pacific

- China
- Japan

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Australia

India

Others

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