

Europe Physical Vapor Deposition (PVD) Market (2019-2025)

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Abstracts

The Europe Physical Vapor Deposition Market would witness market growth of 5.5% CAGR during the forecast period (2019-2025).

Europe is also projected to see promising market growth as a result of the rising demand for solar panels and cohesive policies of the government. The growing use of PVD in microelectronics applications is projected to boost the market position in the region. In addition, the growing demand for durable products using a metallic coating to increase the life span is also boosting the PVD market in the region.

Physical vapor deposition (PVD) is a fundamental technology in microelectronics and its application to biomolecules deposition makes it easy to use the properties of peptide supramolecular nanomaterials and to incorporate them into a wide range of applications. The PVD method is based on a cycle of vaporization from a solid source in the form of atoms or molecules. Vaporized flux is transferred through vacuum, low-pressure gaseous atmosphere or plasma to the substrate where it is concentrated.

Solar energy is a significant factor in the energy equation owing to the unlimited potential of the sun that overshadows all other renewable energy sources. Solar Physical Vapor Deposition (PVD) is a key innovative, original and environmentally-friendly process for the preparation of nanocrystalline materials in powder form. The concept behind this method is to melt the material under concentrated solar radiation that evaporates and condenses as nanopowders on a cold surface.

The development of PVD thin film coatings for cutting tools in the metal cutting industry has been one of the biggest success stories in the industrial application of new coating technology in recent years. PVD is the standard coating technique for solid carbide

cutting tools (end-mills and drills). The TiAlN PVD coating is presently the most commonly applied PVD coating for cutting tools, but other coatings like TiCN and CrN provide better solutions for some applications. PVD coating cutting tools run faster, reduce cycle time, and increase demand for cutting tools.

Based on Application, the market is segmented into Cutting Tools, Medical Equipment, Solar Products, Data Storage, Microelectronics and Other Applications. Based on Category, the market is segmented into PVD Materials, PVD Equipment and PVD Services. Based on countries, the market is segmented into Germany, UK, France, Russia, Spain, Italy, and Rest of Europe.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Applied Materials, Inc., Lam Research Corporation (Novellus Systems), Intevac, Inc., Advanced Energy Industries, Inc., Kurt J. Lesker Company, AJA International, Inc., Angstrom Engineering, Inc., CHA Industries, Inc., Denton Vacuum LLC, and PVD Products, Inc.

SCOPE OF THE STUDY

Market Segmentation:

By Application

Cutting Tools

Medical Equipment

Solar Products

Data Storage

Microelectronics

Other Applications

By Category

PVD Materials

PVD Equipment

PVD Services

By Country

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Companies Profiled

Applied Materials, Inc.

Lam Research Corporation (Novellus Systems)

Intevac, Inc.

Advanced Energy Industries, Inc.

Kurt J. Lesker Company

AJA International, Inc.

Angstrom Engineering, Inc.

CHA Industries, Inc.

Denton Vacuum LLC

PVD Products, Inc.

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