

# Global Physical Vapor Deposition Market Research and Forecast 2017-2022

<https://marketpublishers.com/r/GFA47C20B88EN.html>

Date: August 2017

Pages: 0

Price: US\$ 3,600.00 (Single User License)

ID: GFA47C20B88EN

## Abstracts

The global Physical Vapor Deposition Market is anticipated to grow at the CAGR of 7.8% during 2017-2022. Physical vapor deposition (PVD) is the process of depositing clean, dry and thin film coating, usually dry vacuum over the entire solid surface. It is sometimes referred as PVD coating which involves the vaporization of a solid metal in a high vacuum environment and deposition of electrically conductive material including alloy or pure metal carried out of it. PVD is used in variety of applications including cutting tools, automotive industry, molding tools, decorative coating, medical equipment, solar products and microelectronics due to its eco friendly attributes. The use of PVD is increasing significantly in industries such as healthcare, automotive, aerospace and so forth to replace harmful and galvanic methods. PVD is an eco-friendly technology in contrast to other chemical depositing methods, as a result is expected to gain attraction from across the globe due to rising environmental concerns and cohesive government policies. It involves no hazardous material and does not generate chemical waste or pollution. Green PVD plating is used in place of cyanide and chromium in plating bath for noble metals as well as for plating on plastic. In the U.S., Environmental Protection Agency (EPA) has restricted the use of Hexavalent chromium in electroplating due to its hazardous effects on environment. This restriction has shifted the industries towards Physical Vapor Deposition. The major factors that are augmenting the growth of the market include considerable growth in semiconductor industry, rising demand for medical equipment application and preference for PVD over other coating techniques.

Moreover, the global physical vapor deposition has been widely used in medical applications to deposit wear resistant thin film coating on medical devices including pacemakers, dental instruments, orthopedic implants and surgical instruments. PVD coating provides number of benefits to the medical instruments including chemical barrier, reduced friction, sterilization, biocompatibility, saline solution and improved wear

resistance. In addition to all these applications, PVD coating is also used in solar panel industry to produce greener electricity and to reduce friction for high performance moving parts in aerospace and automotive industry. However, there are certain factors that are hindering the growth of the market which includes high capital investment and requirement of skilled labors.

### Geography Insights

A complete analysis of global physical vapor deposition market has been done in different geographical regions that are contributing significantly towards the growth of the market. On the basis of the geography, market is bifurcated into North America, Europe, Asia Pacific and Rest of the World. Asia Pacific is expected to dominate the physical vapor deposition market owing to rising growth of several end user industries such as microelectronics and PV cell manufacturing in the region. Emerging economies such as China, India and Japan are centre of attraction due to the rising electronic manufacturing industries in the region, cohesive government policies that are further contributing significantly towards the growth of PVD market. Moreover, the increasing demand in battery storage for small scale solar PV system due to inadequate power infrastructure in India, Japan and China is anticipated to propel the growth of PVD market in near future.

North America has been contributing significantly in the growth of global physical vapor deposition market followed by Europe. The growing use of PVD in microelectronics application is expected to boost the market in region. Europe is also expected to witness a promising growth in the market due to the rising demand for solar panel and cohesive government policies. Additionally, the rising demand for durable product employing a metallic coating for increasing life span is also boosting the PVD market in the region.

### Competitive Insight

Physical Vapor Deposition market leaders include Adeka Corporation, Aixtron SE, Applied materials Inc., ASM International N.V., Buhler AG, HEF USA, IHI Corporation, Jusung Engineering Co. Ltd., Kurt J Lesker Company, Lam Research Corporation, Mustang Vacuum Systems, Oerlikon Balzers, Plasma Therm LLC, Platin AG among others. Other notable players that account for PVD market share include Semicore Equipment Inc., Silfex Inc., Singulus Technologies AG, Tokyo Electron Limited, Ulvac Inc. and Veeco Instruments Inc. among others. In order to stay competitive in the market these players adopt different marketing strategies such as merger, acquisitions,

product launch, and geographical expansion so on. For example, in sept 2017, Applied Material Inc. launched E-BEAM technology for display industry which is considered to be effective method to address the root cause of defects in advanced mobile and TV display.

## Market Segmentation

The global physical deposition market is segmented on the basis of types, category and application. By category, the market is segmented on the basis of PVD Services, PVD Equipment and PVD material. Major segments of physical vapor deposition market includes-

Global Physical Vapor Deposition Market Research and Analysis, By Application

Global Physical Vapor Deposition Market Research and Analysis, By Category

Global Physical Vapor Deposition Market Research and Analysis, By Types

The report covers:

- Comprehensive research methodology of Global Physical Vapor Deposition market

- In-depth analysis of macro and micro factors influencing the market guided by key recommendations.

- Analysis of regional regulations and other government policies impacting the Global Physical Vapor Deposition market

- Insights about market determinants which are stimulating the Global Physical Vapor Deposition market

- Detailed and extensive market segments with regional distribution of researched revenues

- Extensive profiles and recent developments of market players

## Contents

### REPORT SUMMARY

- 1.1. RESEARCH METHODS AND TOOLS
- 1.2. MARKET BREAKDOWN
  - 1.2.1. BY SEGMENTS
  - 1.2.2. BY GEOGRAPHY
  - 1.2.3. BY STAKEHOLDERS

### MARKET OVERVIEW AND INSIGHTS

- 2.1. DEFINITION
- 2.2. ANALYST INSIGHT & CURRENT MARKET TRENDS
  - 2.2.1. KEY FINDINGS
  - 2.2.2. RECOMMENDATION
  - 2.2.3. CONCLUSION
- 2.3. REGULATIONS
  - 2.3.1. UNITED STATES
  - 2.3.2. EUROPEAN UNION
  - 2.3.3. CHINA
  - 2.3.4. INDIA
  - 2.3.5. REST OF THE WORLD

### MARKET DETERMINANT

- 3.1. MOTIVATORS
  - 3.1.1. CONTINUAL GROWTH IN SEMICONDUCTOR INDUSTRY
  - 3.1.2. RISING DEMAND FOR MEDICAL EQUIPMENT APPLICATION
  - 3.1.3. PRIORITY OVER OTHER CONVENTIONAL COATING TECHNIQUES
- 3.2. RESTRAINTS
  - 3.2.1. HIGH CAPITAL INVESTMENT
  - 3.2.2. REQUIREMENT OF SKILLED WORKFORCE
- 3.3. OPPORTUNITIES
  - 3.3.1. INCREASING APPLICATION OF PVD IN END INDUSTRIES
  - 3.3.2. DEMAND FOR LOWER EMISSION

### MARKET SEGMENTATION

#### 4.1. PHYSICAL VAPOR DEPOSITION MARKET BY CATEGORY

4.1.1. PVD EQUIPMENT

4.1.2. PVD SERVICES

4.1.3. PVD MATERIALS

#### 4.2. PHYSICAL VAPOR DEPOSITION MARKET BY APPLICATION

4.2.1. ARCHITECTURAL GLASSES

4.2.2. CUTTING TOOLS

4.2.3. DATA STORAGE

4.2.4. MEDICAL EQUIPMENT

4.2.5. MICROELECTRONICS

4.2.6. SOLAR PRODUCTS

#### 4.3. PHYSICAL VAPOR DEPOSITION MARKET BY TYPE

4.3.1. CATHODIC ARC VAPOR DEPOSITION

4.3.2. ELECTRON BEAM VAPOR DEPOSITION

4.3.3. SPUTTER DEPOSITION

4.3.4. ION IMPLANTATION

4.3.5. PULSED LASER VAPOR DEPOSITION

4.3.6. OTHERS

### **COMPETITIVE LANDSCAPE**

5.1. KEY STRATEGIES

5.2. KEY COMPANY ANALYSIS

### **REGIONAL ANALYSIS**

6.1. NORTH AMERICA

6.1.1. UNITED STATES

6.1.2. CANADA

6.1.3. REST OF NORTH AMERICA

6.2. EUROPE

6.2.1. UNITED KINGDOM

6.2.2. FRANCE

6.2.3. GERMANY

6.2.4. ITALY

6.2.5. SPAIN

6.2.6. REST OF EUROPE

6.3. ASIA PACIFIC

6.3.1. INDIA

- 6.3.2. CHINA
- 6.3.3. JAPAN
- 6.4. REST OF THE WORLD

## **COMPANY PROFILES**

- 7.1. ADEKA CORPORATION
  - 7.1.1. INTRODUCTION
  - 7.1.2. ADEKA CORPORATION PRODUCT PORTFOLIO
  - 7.1.3. ADEKA CORPORATION RECENT ACTIVITIES
- 7.2. AIXTRON SE
  - 7.2.1. INTRODUCTION
  - 7.2.2. AIXTRON SE PRODUCT PORTFOLIO
  - 7.2.3. AIXTRON SE RECENT ACTIVITIES
- 7.3. APPLIED MATERIALS, INC.
  - 7.3.1. INTRODUCTION
  - 7.3.2. APPLIED MATERIAL INC. PRODUCT PORTFOLIO
  - 7.3.3. APPLIED MATERIAL INC. RECENT ACTIVITIES
- 7.4. ASM INTERNATIONAL NV
  - 7.4.1. INTRODUCTION
  - 7.4.2. ASM INTERNATIONAL NV PRODUCT PORTFOLIO
  - 7.4.3. ASM INTERNATIONAL NV RECENT ACTIVITIES
- 7.5. BUHLER AG
  - 7.5.1. INTRODUCTION
  - 7.5.2. BUHLER AG PRODUCT PORTFOLIO
  - 7.5.3. BUHLER AG RECENT ACTIVITIES
- 7.6. HEF USA
  - 7.6.1. INTRODUCTION
  - 7.6.2. HEF USA PRODUCT PORTFOLIO
  - 7.6.3. HEF USA RECENT ACTIVITIES
- 7.7. IHI CORPORATION
  - 7.7.1. INTRODUCTION
  - 7.7.2. IHI CORPORATION PRODUCT PORTFOLIO
  - 7.7.3. IHI CORPORATION RECENT ACTIVITIES
- 7.8. JUSUNG ENGINEERING CO. LTD.
  - 7.8.1. INTRODUCTION
  - 7.8.2. JUSUNG ENGINEERING CO. LTD PRODUCT PORTFOLIO
  - 7.8.3. JUSUNG ENGINEERING CO. LTD RECENT ACTIVITIES
- 7.9. KURT J LESKER COMPANY

- 7.9.1. INTRODUCTION
- 7.9.2. KURT J LESKER PRODUCT PORTFOLIO
- 7.9.3. KURT J LESKER RECENT ACTIVITIES
- 7.10. LAM RESEARCH CORPORATION
  - 7.10.1. INTRODUCTION
  - 7.10.2. LAM RESEARCH CORPORATION PRODUCT PORTFOLIO
  - 7.10.3. LAM RESEARCH CORPORATION RECENT ACTIVITIES
- 7.11. MUSTANG VACUUM SYSTEMS
  - 7.11.1. INTRODUCTION
  - 7.11.2. MUSTANG VACUUM SYSTEM PRODUCT PORTFOLIO
  - 7.11.3. MUSTANG VACUUM SYSTEM RECENT ACTIVITIES
- 7.12. OERLIKON BALZERS
  - 7.12.1. INTRODUCTION
  - 7.12.2. OERLIKON PRODUCT PORTFOLIO
  - 7.12.3. OERLIKON RECENT ACTIVITIES
- 7.13. PLASMA THERM LLC
  - 7.13.1. INTRODUCTION
  - 7.13.2. PLASMA THERM LLC PRODUCT PORTFOLIO
  - 7.13.3. PLASMA THERM LLC RECENT ACTIVITIES
- 7.14. PLATIT AG
  - 7.14.1. INTRODUCTION
  - 7.14.2. PLATIT AG PRODUCT PORTFOLIO
  - 7.14.3. PLATIT AG RECENT ACTIVITIES
- 7.15. SEMICORE EQUIPMENT, INC.
  - 7.15.1. INTRODUCTION
  - 7.15.2. SEMICORE EQUIPMENT, INC. PRODUCT PORTFOLIO
  - 7.15.3. SEMICORE EQUIPMENT, INC RECENT ACTIVITIES
- 7.16. SILFEX INC. (LAM RESEARCH CORP.)
  - 7.16.1. INTRODUCTION
  - 7.16.2. SILFEX INC. PRODUCT PORTFOLIO
  - 7.16.3. SILFEX INC. RECENT ACTIVITIES
- 7.17. SINGULUS TECHNOLOGIES AG
  - 7.17.1. INTRODUCTION
  - 7.17.2. SINGULUS TECHNOLOGIES AG PRODUCT PORTFOLIO
  - 7.17.3. SINGULUS TECHNOLOGIES AG RECENT ACTIVITIES
- 7.18. TOKYO ELECTRON LIMITED
  - 7.18.1 INTRODUCTION
  - 7.18.2 TOKYO ELECTRON LIMITED PRODUCT PORTFOLIO
  - 7.18.3. TOKYO ELECTRON LIMITED RECENT ACTIVITIES

7.19. ULVAC INC.

7.19.1 INTRODUCTION

7.19.2. ULVAC INC. PRODUCT PORTFOLIO

7.19.3. ULVAC INC. RECENT ACTIVITIES

7.20. VEECO INSTRUMENTS INC.

7.20.1 INTRODUCTION

7.20.2.VEECO INSTRUMENTS INC. PRODUCT PORTFOLIO

7.20.3. VEECO INSTRUMENTS INC. RECENT ACTIVITIES



## List Of Tables

### LIST OF TABLES

Table 1 GLOBAL PHYSICAL VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS BY CATEGORY, 2015-2022 (\$ MILLION)

Table 2 GLOBAL PVD EQUIPMENT MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 3 GLOBAL PVD SERVICES MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 4 GLOBAL PVD MATERIALS MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 5 GLOBAL PHYSICAL VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS BY APPLICATION, 2015-2022 (\$ MILLION)

Table 6 GLOBAL ARCHITECTURAL GLASSES MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 7 GLOBAL CUTTING TOOLS MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 8 GLOBAL DATA STORAGE MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 9 GLOBAL MEDICAL EQUIPMENT MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 10 GLOBAL MICROELECTRONICS MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 11 GLOBAL SOLAR PRODUCTS MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 12 GLOBAL PHYSICAL VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION) BY TYPES

Table 13 GLOBAL CATHODIC ARC VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 14 GLOBAL ELECTRON BEAM VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 15 GLOBAL SPUTTER DEPOSITION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 16 GLOBAL ION IMPLANTATION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 17 GLOBAL PULSED LASER VAPOR DEPOSITION MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$ MILLION)

Table 18 GLOBAL OTHERS MARKET RESEARCH AND ANALYSIS, 2015-2022 (\$

MILLION)

Table 19 ADEKA CORPORATION PRODUCT PORTFOLIO

Table 20 ADEKA CORPORATION RECENT ACTIVITIES

Table 21 AIXTRON SE PRODUCT PORTFOLIO

Table 22 AIXTRON SE RECENT ACTIVITIES

Table 23 APPLIED MATERIAL INC. PRODUCT PORTFOLIO

Table 24 APPLIED MATERIAL INC. RECENT ACTIVITIES

Table 25 ASM INTERNATIONAL NV PRODUCT PORTFOLIO

Table 26 ASM INTERNATIONAL NV RECENT ACTIVITIES

Table 27 BUHLER AG PRODUCT PORTFOLIO

Table 28 BUHLER AG RECENT ACTIVITIES

Table 29 HEF USA PRODUCT PORTFOLIO

Table 30 HEF USA RECENT ACTIVITIES

Table 31 IHI CORPORATION PRODUCT PORTFOLIO

Table 32 IHI CORPORATION RECENT ACTIVITIES

Table 33 JUSUNG ENGINEERING CO. LTD PRODUCT PORTFOLIO

Table 34 JUSUNG ENGINEERING CO. LTD RECENT ACTIVITIES

Table 35 KURT J LESKER PRODUCT PORTFOLIO

Table 36 KURT J LESKER RECENT ACTIVITIES

Table 37 LAM RESEARCH CORPORATION PRODUCT PORTFOLIO

Table 38 LAM RESEARCH CORPORATION RECENT ACTIVITIES

Table 39 MUSTANG VACUUM SYSTEM PRODUCT PORTFOLIO

Table 40 MUSTANG VACUUM SYSTEM RECENT ACTIVITIES

Table 41 OERLIKON PRODUCT PORTFOLIO

Table 42 OERLIKON RECENT ACTIVITIES

Table 43 PLASMA THERM LLC PRODUCT PORTFOLIO

Table 44 PLASMA THERM LLC RECENT ACTIVITIES

Table 45 PLATIT AG PRODUCT PORTFOLIO

Table 46 PLATIT AG RECENT ACTIVITIES

Table 47 SEMICORE EQUIPMENT, INC. PRODUCT PORTFOLIO

Table 48 SEMICORE EQUIPMENT, INC RECENT ACTIVITIES

Table 49 SILFEX INC. PRODUCT PORTFOLIO

Table 50 SILFEX INC. RECENT ACTIVITIES

Table 51 SINGULUS TECHNOLOGIES AG PRODUCT PORTFOLIO

Table 52 SINGULUS TECHNOLOGIES AG RECENT ACTIVITIES

Table 53 TOKYO ELECTRON LIMITED PRODUCT PORTFOLIO

Table 54 TOKYO ELECTRON LIMITED RECENT ACTIVITIES

Table 55 ULVAC INC. PRODUCT PORTFOLIO

Table 56 ULVAC INC. RECENT ACTIVITIES

Table 57 VEECO INSTRUMENTS INC. PRODUCT PORTFOLIO

Table 58 VEECO INSTRUMENTS INC. RECENT ACTIVITIES

## List Of Figures

### LIST OF FIGURES

Figure 1 NORTH AMERICA MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 2 US MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 3 CANADA MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 4 EUROPEAN MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 5 UK MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 6 FRANCE MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 7 GERMANY MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 8 ITALY MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 9 SPAIN MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 10 ROE MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 11 ASIA PACIFIC MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 12 INDIA MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 13 CHINA MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 14 JAPAN MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 15 ROPAC MARKET RESEARCH AND ANALYSIS, 2015-2022

Figure 16 REST OF THE WORLD MARKET RESEARCH AND ANALYSIS, 2015-2022

## I would like to order

Product name: Global Physical Vapor Deposition Market Research and Forecast 2017-2022

Product link: <https://marketpublishers.com/r/GFA47C20B88EN.html>

Price: US\$ 3,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GFA47C20B88EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970