

# **Electron Beam Physical Vapor Deposition Coating Market by Source (Single and Multiple), and Application (Thermal Barrier Coatings, Anticorrosive coating, and Others), and End user (Automotive, Medical, Electrical & Electronics, Power, Optical, and Others): Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

The global electron beam physical vapor deposition coating market was valued at \$1.8 billion in 2019, and is projected to reach \$2.8 billion by 2027, growing at a CAGR of 5.9% from 2020 to 2027.

Electron beam physical vapor deposition (EB-PVD) coating is a thin film produced by electron beam PVD systems also called as electron evaporation systems. It is a type of PVD in which an intense electron beam is generated and emitted from a filament and directed toward a coating material. The steering of electron beams is done via electric and magnetic fields. The incident beams evaporate the coating material (source material) and it is deposited on the substrate. The entire process takes place within a vacuum environment and can be ion assisted to enhance the coating properties. The source material used for EB-PVD include but not limited to Aluminum Titanium Nitride (TiAlN), ceramic, Titanium, and Zirconium. Yttria-stabilized zirconia (YSZ) is the standard material for turbine applications. The resultant film is 1 nm to a few microns thick. The thin film enhances the thermal and optical properties of the substrate. The different types of substrate include metals, oxide, or semiconductors. Thin coatings enhance the corrosion resistance caused by impurities present in the operating environment. Thicker coatings of zirconia are known to reduce the thermal stresses in the turbine and aero-engine components. The major applications of EB-PVD coatings

are in creating thermal barrier coatings (TBCs) in automotive, aerospace, power generation, and marine components. Moreover, the fabrication of thin film semiconductor components is done by electron beam PVD coatings. Furthermore, hydroxyapatite (HAp) coating, which is popularly used for dental and orthopedic prostheses, also uses EB-PVD. The metallization of semiconductor components that are further used in consumer electronics, micro electro mechanical systems, RF power amplifiers, light emitting diodes, and laser recorders is done by EB-PVD.

The global electron beam physical vapor deposition coating market is mainly driven by the automotive, medical, and electronics industries. Increase in global healthcare expenditure in an effort to provide better medical services, which in turn increase the demand for medical devices and equipment. Most of the economies around the world are increasing the share of GDP on healthcare services. Moreover, as the income increases, the expenditure on biomedical implants are likely to rise. Due to new technological developments in the electronics industry, there has been a surge in demand for semiconductor chips. Microelectromechanical systems (MEMS)-based sensors are used in smartphones, wearable devices, medical instruments, and other electronic devices. Disruptive updates such as IoT and 5G demands better chips. Furthermore, increase in automotive production and adoption of solar energy & power generation are likely to boost the global EB-PVD market. However, the availability of alternatives such as electroplating, or even other PVD techniques such as chemical vapor deposition (CVD) or magnetron sputtering, is expected to reduce the dependency on EB-PVD coatings, which in turn hampers the market growth.

The development of Plasma activated EB-PVD is likely to provide new opportunities for the market growth. Plasma activation enhances the electron beam coating process by pretreating substrate and deposition of film at low substrate temperatures. Plasma activation has potential applications in the food packaging industry.

The global electron beam physical vapor deposition coating market is segmented on the basis of source, application, and end users. On the basis of source, the market is divided into single and multiple. Application wise, the market is segmented into thermal barrier coatings, anticorrosive coatings, and others. By end user, the market is fragmented into automotive, medical, electrical & electronics, power, optical, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major players analyzed in this report are AMG Advanced Metallurgical Group N.V., Angstrom Engineering Inc., Applied Materials Inc., Denton Vacuum LLC, Ferrotec

Holdings Corporation, Intlvac Thin Film Corporation, Polyteknik AS, PVD Products Inc., Semicore Equipment Inc., and Vaksis R&D and Engineering.

## KEY BENEFITS FOR STAKEHOLDERS

The report includes in-depth analysis of different segments and provides market estimations between 2019 and 2027.

Porter's five forces model illustrates the potency of buyers & sellers, which is estimated to assist the market players to adopt effective strategies.

The key market players are profiled to gain an understanding of the strategies adopted by them.

This report provides a detailed analysis of the current trends and future estimations from 2020 to 2027, which helps identify the prevailing market opportunities.

## IMPACT OF COVID-19 ON THE GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION VAPOR COATING MARKET

The growth of thin film deposition technique such as electron beam physical vapor deposition coating systems is dependent on the end users, mainly automotive, medical, and electronics.

The outbreak of COVID-19 pandemic has disrupted the supply chain of the automotive manufacturing as well as electronic industry.

According to data collected by AFIA – Association of Manufacturers for the Automotive Industry, the sales of automotive components dropped by 76% in April 2019 compared to the April 2018.

However, in the global medical sector the market has witnessed significant boost, with increase in the demand for medical devices and equipment due to the pandemic.

## KEY MARKET SEGMENTS

### By Source

Single

Multiple

### By Application

Thermal Barrier Coatings

Anticorrosive Coating

Others

### By End User

Automotive

Medical

Electrical & Electronics

Power

Optical

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

## Key Players in the global electrochromic glass

AMG Advanced Metallurgical Group N.V.

Angstrom Engineering Inc.

Applied Materials Inc.

Denton Vacuum LLC

Ferrotec Holdings Corporation

Intlvac Thin Film Corporation

Polyteknik AS

PVD Products Inc.

Semicore Equipment Inc.

Vaksis R&D and Engineering

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key benefits for stakeholders:
- 1.3. Key market segments
- 1.4. Research methodology
  - 1.4.1. Primary research
  - 1.4.2. Secondary research
  - 1.4.3. Analyst tools and models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. Key findings
  - 2.1.1. Top investment pockets
- 2.2. CXO perspective

### CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Porter's Five Forces Analysis
  - 3.2.1. Moderate bargaining power of suppliers
  - 3.2.2. High bargaining power of buyer
  - 3.2.3. Moderate threat of substitute
  - 3.2.4. Highly competitive rivalry
  - 3.2.5. Moderate threat of new entrants
- 3.3. Market dynamics
  - 3.3.1. Drivers
    - 3.3.1.1. Rise in healthcare expenditure
    - 3.3.1.2. Growth and developments in the global electronics industry
  - 3.3.2. Restraint
    - 3.3.2.1. Availability of alternatives
  - 3.3.3. Opportunity
    - 3.3.3.1. Development of plasma spray-physical vapor deposition (PS-PVD)
- 3.4. Value chain analysis
- 3.5. Impact of COVID-19 on the global electron beam physical vapor deposition coating market

## **CHAPTER 4: ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY SOURCE**

### 4.1. Overview

### 4.2. Single

4.2.1. Key market trends, growth factors, and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market analysis, by country

### 4.3. Multiple

4.3.1. Key market trends, growth factors, and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market analysis, by country

## **CHAPTER 5: ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY APPLICATION**

### 5.1. Overview

### 5.2. Thermal Barrier Coatings

5.2.1. Key market trends, growth factors, and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market analysis, by country

### 5.3. Anticorrosive Coating

5.3.1. Key market trends, growth factors, and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market analysis, by country

### 5.4. Others

5.4.1. Key market trends, growth factors, and opportunities

5.4.2. Market size and forecast, by region

5.4.3. Market analysis, by country

## **CHAPTER 6: ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY END USER**

### 6.1. Overview

### 6.2. Automotive

6.2.1. Key market trends, growth factors, and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market analysis, by country

### 6.3. Medical



- 6.3.1. Key market trends, growth factors, and opportunities
- 6.3.2. Market size and forecast, by region
- 6.3.3. Market analysis, by country
- 6.4. Electrical & Electronics
  - 6.4.1. Key market trends, growth factors, and opportunities
  - 6.4.2. Market size and forecast, by region
  - 6.4.3. Market analysis, by country
- 6.5. Power
  - 6.5.1. Key market trends, growth factors, and opportunities
  - 6.5.2. Market size and forecast, by region
  - 6.5.3. Market analysis, by country
- 6.6. Optical
  - 6.6.1. Key market trends, growth factors, and opportunities
  - 6.6.2. Market size and forecast, by region
  - 6.6.3. Market analysis, by country
- 6.7. Others
  - 6.7.1. Key market trends, growth factors, and opportunities
  - 6.7.2. Market size and forecast, by region
  - 6.7.3. Market analysis, by country

## **CHAPTER 7: ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY REGION**

- 7.1. Overview
  - 7.1.1. Market size and forecast
- 7.2. North America
  - 7.2.1. Key market trends, growth factors, and opportunities
  - 7.2.2. Market size and forecast, by source
  - 7.2.3. Market size and forecast, by application
  - 7.2.4. Market size and forecast, by end user
  - 7.2.5. Market analysis, by country
    - 7.2.5.1. U.S.
      - 7.2.5.1.1. Market size and forecast, by source
      - 7.2.5.1.2. Market size and forecast, by application
      - 7.2.5.1.3. Market size and forecast, by end user
    - 7.2.5.2. Canada
      - 7.2.5.2.1. Market size and forecast, by source
      - 7.2.5.2.2. Market size and forecast, by application
      - 7.2.5.2.3. Market size and forecast, by end user

#### 7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by source

7.2.5.3.2. Market size and forecast, by application

7.2.5.3.3. Market size and forecast, by end user

### 7.3. Europe

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by source

7.3.3. Market size and forecast, by application

7.3.4. Market size and forecast, by end user

7.3.5. Market analysis, by country

#### 7.3.5.1. Germany

7.3.5.1.1. Market size and forecast, by source

7.3.5.1.2. Market size and forecast, by application

7.3.5.1.3. Market size and forecast, by end user

#### 7.3.5.2. France

7.3.5.2.1. Market size and forecast, by source

7.3.5.2.2. Market size and forecast, by application

7.3.5.2.3. Market size and forecast, by end user

#### 7.3.5.3. UK

7.3.5.3.1. Market size and forecast, by source

7.3.5.3.2. Market size and forecast, by application

7.3.5.3.3. Market size and forecast, by end user

#### 7.3.5.4. Italy

7.3.5.4.1. Market size and forecast, by source

7.3.5.4.2. Market size and forecast, by application

7.3.5.4.3. Market size and forecast, by end user

#### 7.3.5.5. Rest of Europe

7.3.5.5.1. Market size and forecast, by source

7.3.5.5.2. Market size and forecast, by application

7.3.5.5.3. Market size and forecast, by end user

### 7.4. Asia-Pacific

7.4.1. Key market trends, growth factors, and opportunities

7.4.2. Market size and forecast, by source

7.4.3. Market size and forecast, by application

7.4.4. Market size and forecast, by end user

7.4.5. Market analysis, by country

#### 7.4.5.1. China

7.4.5.1.1. Market size and forecast, by source

7.4.5.1.2. Market size and forecast, by application

- 7.4.5.1.3. Market size and forecast, by end user
- 7.4.5.2. Japan
  - 7.4.5.2.1. Market size and forecast, by source
  - 7.4.5.2.2. Market size and forecast, by application
  - 7.4.5.2.3. Market size and forecast, by end user
- 7.4.5.3. India
  - 7.4.5.3.1. Market size and forecast, by source
  - 7.4.5.3.2. Market size and forecast, by application
  - 7.4.5.3.3. Market size and forecast, by end user
- 7.4.5.4. South Korea
  - 7.4.5.4.1. Market size and forecast, by source
  - 7.4.5.4.2. Market size and forecast, by application
  - 7.4.5.4.3. Market size and forecast, by end user
- 7.4.5.5. Rest of APAC
  - 7.4.5.5.1. Market size and forecast, by source
  - 7.4.5.5.2. Market size and forecast, by application
  - 7.4.5.5.3. Market size and forecast, by end user
- 7.5. LAMEA
  - 7.5.1. Key market trends, growth factors, and opportunities
  - 7.5.2. Market size and forecast, by source
  - 7.5.3. Market size and forecast, by application
  - 7.5.4. Market size and forecast, by end user
  - 7.5.5. Market analysis, by country
    - 7.5.5.1. Brazil
      - 7.5.5.1.1. Market size and forecast, by source
      - 7.5.5.1.2. Market size and forecast, by application
      - 7.5.5.1.3. Market size and forecast, by end user
    - 7.5.5.2. Saudi Arabia
      - 7.5.5.2.1. Market size and forecast, by source
      - 7.5.5.2.2. Market size and forecast, by application
      - 7.5.5.2.3. Market size and forecast, by end user
    - 7.5.5.3. South Africa
      - 7.5.5.3.1. Market size and forecast, by source
      - 7.5.5.3.2. Market size and forecast, by application
      - 7.5.5.3.3. Market size and forecast, by end user
    - 7.5.5.4. Rest of LAMEA
      - 7.5.5.4.1. Market size and forecast, by source
      - 7.5.5.4.2. Market size and forecast, by application
      - 7.5.5.4.3. Market size and forecast, by end user

## **CHAPTER 8: COMPETITIVE LANDSCAPE**

### 8.1. Introduction

#### 8.1.1. Market player positioning, 2019

### 8.2. Top winning strategies

### 8.3. Competitive heatmap

### 8.4. Key developments

#### 8.4.1. New product launches

#### 8.4.2. Agreement

## **CHAPTER 9: COMPANY PROFILES**

### 9.1. AMG ADVANCED METALLURGICAL GROUP N.V.

#### 9.1.1. Company overview

#### 9.1.2. Company snapshot

#### 9.1.3. Operating business segments

#### 9.1.4. Product portfolio

#### 9.1.5. Business performance

### 9.2. ANGSTROM ENGINEERING INC.

#### 9.2.1. Company overview

#### 9.2.2. Company snapshot

#### 9.2.3. Product portfolio

### 9.3. APPLIED MATERIALS INC.

#### 9.3.1. Company overview

#### 9.3.2. Company snapshot

#### 9.3.3. Operating business segments

#### 9.3.4. Product portfolio

#### 9.3.5. Business performance

### 9.4. DENTON VACUUM LLC

#### 9.4.1. Company overview

#### 9.4.2. Company snapshot

#### 9.4.3. Product portfolio

#### 9.4.4. Key strategic moves and developments

### 9.5. FERROTEC HOLDINGS CORPORATION

#### 9.5.1. Company overview

#### 9.5.2. Company snapshot

#### 9.5.3. Operating business segments

#### 9.5.4. Product portfolio

9.5.5. Business performance

## 9.6. INTLVAC THIN FILM CORPORATION

9.6.1. Company overview

9.6.2. Company snapshot

9.6.3. Product portfolio

## 9.7. POLYTEKNIK AS

9.7.1. Company overview

9.7.2. Company snapshot

9.7.3. Product portfolio

9.7.4. Key strategic moves and developments

## 9.8. PVD PRODUCTS INC.

9.8.1. Company overview

9.8.2. Company snapshot

9.8.3. Product portfolio

## 9.9. SEMICORE EQUIPMENT INC.

9.9.1. Company overview

9.9.2. Company snapshot

9.9.3. Product portfolio

## 9.10. VAKSIS R&D AND ENGINEERING

9.10.1. Company overview

9.10.2. Company snapshot

9.10.3. Product portfolio

## List Of Tables

### LIST OF TABLES

- TABLE 01. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY SOURCE, 2019–2027 (\$MILLION)
- TABLE 02. SINGLE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING, BY REGION 2019–2027 (\$MILLION)
- TABLE 03. MULTIPLE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY REGION 2019–2027 (\$MILLION)
- TABLE 04. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY APPLICATION, 2019–2027 (\$MILLION)
- TABLE 05. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, FOR THERMAL BARRIER COATINGS, BY REGION 2019–2027 (\$MILLION)
- TABLE 06. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, FOR ANTICORROSIVE COATINGS BY REGION 2019–2027 (\$MILLION)
- TABLE 07. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR OTHERS, BY REGION 2019–2027 (\$MILLION)
- TABLE 08. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY END USER, 2019–2027 (\$MILLION)
- TABLE 09. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING FOR AUTOMOTIVE, BY REGION 2019–2027 (\$MILLION)
- TABLE 10. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR MEDICAL, BY REGION 2019–2027 (\$MILLION)
- TABLE 11. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR ELECTRICAL & ELECTRONICS, BY REGION 2019–2027 (\$MILLION)
- TABLE 12. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR POWER, BY REGION 2019–2027 (\$MILLION)
- TABLE 13. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING FOR OPTICAL, BY REGION 2019–2027 (\$MILLION)
- TABLE 14. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR OTHERS, BY REGION 2019–2027 (\$MILLION)
- TABLE 15. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, 2019–2027(\$MILLION)
- TABLE 16. NORTH AMERICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)
- TABLE 17. NORTH AMERICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)
- TABLE 18. NORTH AMERICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION

COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 19. NORTH AMERICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY COUNTRY, 2019–2027(\$MILLION)

TABLE 20. U.S. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 21. U.S. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 22. U.S. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 23. CANADA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 24. CANADA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 25. CANADA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 26. MEXICO ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 27. MEXICO ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 28. MEXICO ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 29. EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 30. EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 31. EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 32. EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY COUNTRY, 2019–2027(\$MILLION)

TABLE 33. GERMANY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 34. GERMANY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 35. GERMANY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 36. FRANCE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 37. FRANCE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 38. FRANCE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 39. UK ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 40. UK ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 41. UK ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 42. ITALY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 43. ITALY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 44. ITALY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 45. REST OF EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 46. REST OF EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 47. REST OF EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 48. ASIA-PACIFIC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 49. ASIA-PACIFIC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 50. ASIA-PACIFIC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 51. ASIA-PACIFIC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY COUNTRY, 2019–2027(\$MILLION)

TABLE 52. CHINA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 53. CHINA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 54. CHINA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 55. JAPAN ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 56. JAPAN ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 57. JAPAN ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING



MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 58. INDIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 59. INDIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 60. INDIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 61. SOUTH KOREA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 62. SOUTH KOREA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 63. SOUTH KOREA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 64. REST OF APAC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 65. REST OF APAC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 66. REST OF APAC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 67. LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 68. LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 69. LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 70. LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY COUNTRY, 2019–2027(\$MILLION)

TABLE 71. BRAZIL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 72. BRAZIL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 73. BRAZIL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 74. SAUDI ARABIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 75. SAUDI ARABIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 76. SAUDI ARABIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 77. REST OF LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 78. SOUTH AFRICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 79. SOUTH AFRICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 80. REST OF LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY SOURCE, 2019–2027(\$MILLION)

TABLE 81. REST OF LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY APPLICATION, 2019–2027(\$MILLION)

TABLE 82. REST OF LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET REVENUE, BY END USER, 2019–2027(\$MILLION)

TABLE 83. NEW PRODUCT LAUNCHES

TABLE 84. AGREEMENT

TABLE 85. AMG ADVANCED: COMPANY SNAPSHOT

TABLE 86. AMG ADVANCED: OPERATING SEGMENTS

TABLE 87. AMG ADVANCED: PRODUCT PORTFOLIO

TABLE 88. OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 89. ANGSTROM: COMPANY SNAPSHOT

TABLE 90. ANGSTROM: PRODUCT PORTFOLIO

TABLE 91. APPLIED: COMPANY SNAPSHOT

TABLE 92. APPLIED: OPERATING SEGMENTS

TABLE 93. APPLIED: PRODUCT PORTFOLIO

TABLE 94. OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 95. DENTON: COMPANY SNAPSHOT

TABLE 96. DENTON: PRODUCT PORTFOLIO

TABLE 97. DENTON: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 98. FERROTEC: COMPANY SNAPSHOT

TABLE 99. FERROTEC: OPERATING SEGMENTS

TABLE 100. FERROTEC: PRODUCT PORTFOLIO

TABLE 101. OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 102. INTLVAC: COMPANY SNAPSHOT

TABLE 103. INTLVAC: PRODUCT PORTFOLIO

TABLE 104. POLYTEKNIK: COMPANY SNAPSHOT

TABLE 105. POLYTEKNIK: PRODUCT PORTFOLIO

TABLE 106. POLYTEKNIK: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 107. PVD INC.: COMPANY SNAPSHOT

TABLE 108. PVD INC.: PRODUCT PORTFOLIO

TABLE 109. SEMICORE: COMPANY SNAPSHOT

TABLE 110. SEMICORE: PRODUCT PORTFOLIO

TABLE 111. VAKSIS: COMPANY SNAPSHOT

TABLE 112. VAKSIS: PRODUCT PORTFOLIO

## List Of Figures

### LIST OF FIGURES

FIGURE 01. KEY MARKET SEGMENTS

FIGURE 02. EXECUTIVE SUMMARY

FIGURE 03. TOP INVESTMENT POCKETS

FIGURE 04. MODERATE BARGAINING POWER OF SUPPLIERS

FIGURE 05. HIGH BARGAINING POWER OF BUYERS

FIGURE 06. HIGH THREAT OF SUBSTITUTES

FIGURE 07. MODERATE COMPETITIVE RIVALRY

FIGURE 08. MODERATE THREAT OF NEW ENTRANTS

FIGURE 09. MARKET DYNAMICS

FIGURE 10. VALUE CHAIN ANALYSIS

FIGURE 11. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY SOURCE, 2019–2027

FIGURE 12. COMPARATIVE ANALYSIS OF SINGLE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 13. COMPARATIVE ANALYSIS OF MULTIPLE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 14. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION VAPOR MARKET, BY APPLICATION, 2019–2027

FIGURE 15. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING FOR THERMAL BARRIER COATINGS, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 16. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR ANTICORROSIVE COATINGS, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 17. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 18. GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET, BY END USER, 2019–2027

FIGURE 19. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING FOR AUTOMOTIVE, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 20. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING FOR AUTOMOTIVE, BY COUNTRY, 2019& 2027 (\$MILLION)

FIGURE 21. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR

DEPOSITION COATING MARKET FOR ELECTRICAL & ELECTRONICS, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 22. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR POWER, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 23. COMPARATIVE ANALYSIS OF ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR OPTICAL, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 24. COMPARATIVE ANALYSIS OF GLOBAL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION COATING MARKET FOR OTHER, BY COUNTRY, 2019 & 2027 (\$MILLION)

FIGURE 25. U.S. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 26. CANADA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 27. MEXICO ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 28. U.S. ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 29. FRANCE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 30. UK ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 31. ITALY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 32. REST OF EUROPE ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 33. CHINA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 34. JAPAN ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 35. INDIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 36. SOUTH KOREA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 37. REST OF APAC ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 38. BRAZIL ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 39. SAUDI ARABIA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 40. SOUTH AFRICA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 41. REST OF LAMEA ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) COATING MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 42. MARKET PLAYER POSITIONING, 2019

FIGURE 43. COMPETITIVE HEATMAP OF KEY PLAYERS

FIGURE 44. AMG ADVANCED: REVENUE, 2017–2019 (\$MILLION)

FIGURE 45. AMG ADVANCED REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 46. AMG ADVANCED REVENUE SHARE BY REGION, 2019 (%)

FIGURE 47. APPLIED: REVENUE, 2017–2019 (\$MILLION)

FIGURE 48. APPLIED: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 49. APPLIED: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 50. FERROTEC: REVENUE, 2017–2019 (\$MILLION)

FIGURE 51. FERROTEC: REVENUE SHARE BY REGION, 2019 (%)

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