

Global Power Semiconductor Electron Beam Irradiation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Semiconductor Electron Beam Irradiation market size is expected to reach \$ 362 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

Power semiconductor electron beam irradiation refers to an industrial contract service that uses a high-energy electron beam (E-beam) to modify, test, or optimize the performance of power semiconductor devices, including IGBTs, MOSFETs, diodes, thyristors, and novel wide-bandgap devices such as SiC and GaN. This process enables precise defect control, minority carrier lifetime adjustment, and switching characteristic optimization. Electron beam processing is performed under controlled conditions, including single-sided or double-sided irradiation, and the electron beam energy can be adjusted according to device requirements to meet the electrical and thermal performance requirements of power devices. The global gross margin for power semiconductor electron beam irradiation is projected to be approximately 36%-66.51% in 2025.

The global power semiconductor electron beam processing service market continues to expand due to growing demand from new energy vehicles, renewable energy inverters, industrial automation, and high-power modules in aerospace. Core listed companies dominate the market, providing high-energy electron beam facilities and customized processes, while long-tail companies supplement regional needs, achieving overall global market coverage.

Technically, E-beam is the only mainstream industrial processing technology, offering adjustable energy and combining single-sided or double-sided processes to meet the

requirements of different device package thicknesses and power ratings. Through precise defect control and performance optimization, services significantly improve the switching performance, thermoelectric performance, and reliability of devices, creating value for downstream customers.

Regional supply chain distribution shows that the US, Europe, Japan, and South Korea are the main markets, while the Chinese and Taiwanese markets are expanding rapidly, and the Southeast Asian and Indian markets are in the development stage. Market concentration is high, with core companies contributing approximately 70-75% of revenue and long-tail companies contributing approximately 25-30%, ensuring overall service capabilities and flexibility.

Market growth is driven by downstream demand, including electric vehicle power inverters, industrial power control modules, and aerospace power devices. Policy support, new product launches, capacity expansion investments, and cross-regional supply chain migrations all have a positive impact on future growth trends.

The future market still faces challenges such as high equipment investment, stringent quality control, and capacity limitations. However, with the maturation of industry technology and increasing customer demand for reliability, the potential for high-end customized electron beam processing services continues to grow.

This report studies the global Power Semiconductor Electron Beam Irradiation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Semiconductor Electron Beam Irradiation, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Semiconductor Electron Beam Irradiation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Semiconductor Electron Beam Irradiation total market, 2021-2032, (USD Million)

Global Power Semiconductor Electron Beam Irradiation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Power Semiconductor Electron Beam Irradiation total market, key domestic companies, and share, (USD Million)

Global Power Semiconductor Electron Beam Irradiation revenue by player, revenue and market share 2021-2026, (USD Million)

Global Power Semiconductor Electron Beam Irradiation total market by Type, CAGR, 2021-2032, (USD Million)

Global Power Semiconductor Electron Beam Irradiation total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Power Semiconductor Electron Beam Irradiation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sterigenics?Nordion?, E-BEAM Services, BGS Beta-Gamma-Service, NHV Corporation, EB Tech Co., Ltd., ANSTO, BBF Sterilisationservice GmbH, VPT Components, Steris, CGN Nuclear Technology Development Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Power Semiconductor Electron Beam Irradiation market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Power Semiconductor Electron Beam Irradiation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Semiconductor Electron Beam Irradiation Market, Segmentation by Type:

0?~?2?MeV Electron Beam

2?~?5?MeV Electron Beam

5?~?10?MeV Electron Beam

>10?MeV Electron Beam

Global Power Semiconductor Electron Beam Irradiation Market, Segmentation by Device Type:

MOSFETs

IGBTs

Diodes

Thyristors

Others

Global Power Semiconductor Electron Beam Irradiation Market, Segmentation by Irradiation Method:

Single-side Irradiation

Double-side Irradiation

Global Power Semiconductor Electron Beam Irradiation Market, Segmentation by Application:

Automotive Electronics

Industrial Electronics

Aerospace & Defense

Consumer Electronics

Semiconductor R&D / Testing Labs

Other

Companies Profiled:

Sterigenics?Nordion?

E-BEAM Services

BGS Beta-Gamma-Service

NHV Corporation

EB Tech Co., Ltd.

ANSTO

BBF Sterilisationservice GmbH

VPT Components

Steris

CGN Nuclear Technology Development Co., Ltd.

Zhongjin Irradiation Incorporated Company

CNNC

Shandong Lanfu High Energy Physics Technology Corporation Ltd.

Henan Tongwei Xinda Electron Beam Technology Co., Ltd.

Fangyuan Group

zsfzjs

Wuxi EL Pont Group

Shanghai Shuneng Irradiation Technology Co., Ltd.

Key Questions Answered

1. How big is the global Power Semiconductor Electron Beam Irradiation market?
2. What is the demand of the global Power Semiconductor Electron Beam Irradiation market?
3. What is the year over year growth of the global Power Semiconductor Electron Beam Irradiation market?
4. What is the total value of the global Power Semiconductor Electron Beam Irradiation market?
5. Who are the Major Players in the global Power Semiconductor Electron Beam Irradiation market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Power Semiconductor Electron Beam Irradiation Introduction
- 1.2 World Power Semiconductor Electron Beam Irradiation Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Power Semiconductor Electron Beam Irradiation Total Market by Region (by Headquarter Location)
 - 1.3.1 World Power Semiconductor Electron Beam Irradiation Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.3 China Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.4 Europe Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.5 Japan Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
 - 1.3.8 India Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Power Semiconductor Electron Beam Irradiation Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)
- 2.2 World Power Semiconductor Electron Beam Irradiation Consumption Value by Region
 - 2.2.1 World Power Semiconductor Electron Beam Irradiation Consumption Value by Region (2021-2026)
 - 2.2.2 World Power Semiconductor Electron Beam Irradiation Consumption Value

Forecast by Region (2027-2032)

2.3 United States Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.4 China Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.5 Europe Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.6 Japan Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.7 South Korea Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.8 ASEAN Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

2.9 India Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032)

3 WORLD POWER SEMICONDUCTOR ELECTRON BEAM IRRADIATION COMPANIES COMPETITIVE ANALYSIS

3.1 World Power Semiconductor Electron Beam Irradiation Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Power Semiconductor Electron Beam Irradiation Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Power Semiconductor Electron Beam Irradiation in 2025

3.2.3 Global Concentration Ratios (CR8) for Power Semiconductor Electron Beam Irradiation in 2025

3.3 Power Semiconductor Electron Beam Irradiation Company Evaluation Quadrant

3.4 Power Semiconductor Electron Beam Irradiation Market: Overall Company Footprint Analysis

3.4.1 Power Semiconductor Electron Beam Irradiation Market: Region Footprint

3.4.2 Power Semiconductor Electron Beam Irradiation Market: Company Product Type Footprint

3.4.3 Power Semiconductor Electron Beam Irradiation Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

- 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: Power Semiconductor Electron Beam Irradiation Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Power Semiconductor Electron Beam Irradiation Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Power Semiconductor Electron Beam Irradiation Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Power Semiconductor Electron Beam Irradiation Consumption Value Comparison
 - 4.2.1 United States VS China: Power Semiconductor Electron Beam Irradiation Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Power Semiconductor Electron Beam Irradiation Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Power Semiconductor Electron Beam Irradiation Companies and Market Share, 2021-2026
 - 4.3.1 United States Based Power Semiconductor Electron Beam Irradiation Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies Power Semiconductor Electron Beam Irradiation Revenue, (2021-2026)
- 4.4 China Based Companies Power Semiconductor Electron Beam Irradiation Revenue and Market Share, 2021-2026
 - 4.4.1 China Based Power Semiconductor Electron Beam Irradiation Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies Power Semiconductor Electron Beam Irradiation Revenue, (2021-2026)
- 4.5 Rest of World Based Power Semiconductor Electron Beam Irradiation Companies and Market Share, 2021-2026
 - 4.5.1 Rest of World Based Power Semiconductor Electron Beam Irradiation Companies, Headquarters (Province, Country)
 - 4.5.2 Rest of World Based Companies Power Semiconductor Electron Beam Irradiation Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Power Semiconductor Electron Beam Irradiation Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 0~2MeV Electron Beam

5.2.2 2~5MeV Electron Beam

5.2.3 5~10MeV Electron Beam

5.2.4 >10MeV Electron Beam

5.3 Market Segment by Type

5.3.1 World Power Semiconductor Electron Beam Irradiation Market Size by Type (2021-2026)

5.3.2 World Power Semiconductor Electron Beam Irradiation Market Size by Type (2027-2032)

5.3.3 World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY DEVICE TYPE

6.1 World Power Semiconductor Electron Beam Irradiation Market Size Overview by Device Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Device Type

6.2.1 MOSFETs

6.2.2 IGBTs

6.2.3 Diodes

6.2.4 Thyristors

6.2.5 Others

6.3 Market Segment by Device Type

6.3.1 World Power Semiconductor Electron Beam Irradiation Market Size by Device Type (2021-2026)

6.3.2 World Power Semiconductor Electron Beam Irradiation Market Size by Device Type (2027-2032)

6.3.3 World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Device Type (2027-2032)

7 MARKET ANALYSIS BY IRRADIATION METHOD

7.1 World Power Semiconductor Electron Beam Irradiation Market Size Overview by Irradiation Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Irradiation Method

7.2.1 Single-side Irradiation

7.2.2 Double-side Irradiation

7.3 Market Segment by Irradiation Method

7.3.1 World Power Semiconductor Electron Beam Irradiation Market Size by Irradiation Method (2021-2026)

7.3.2 World Power Semiconductor Electron Beam Irradiation Market Size by Irradiation Method (2027-2032)

7.3.3 World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Irradiation Method (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Power Semiconductor Electron Beam Irradiation Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive Electronics

8.2.2 Industrial Electronics

8.2.3 Aerospace & Defense

8.2.4 Consumer Electronics

8.2.5 Semiconductor R&D / Testing Labs

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Power Semiconductor Electron Beam Irradiation Market Size by Application (2021-2026)

8.3.2 World Power Semiconductor Electron Beam Irradiation Market Size by Application (2027-2032)

8.3.3 World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sterigenics?Nordion?

9.1.1 Sterigenics?Nordion? Details

9.1.2 Sterigenics?Nordion? Major Business

9.1.3 Sterigenics?Nordion? Power Semiconductor Electron Beam Irradiation Product and Services

9.1.4 Sterigenics?Nordion? Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Sterigenics?Nordion? Recent Developments/Updates

9.1.6 Sterigenics?Nordion? Competitive Strengths & Weaknesses

9.2 E-BEAM Services

9.2.1 E-BEAM Services Details

9.2.2 E-BEAM Services Major Business

9.2.3 E-BEAM Services Power Semiconductor Electron Beam Irradiation Product and Services

9.2.4 E-BEAM Services Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 E-BEAM Services Recent Developments/Updates

9.2.6 E-BEAM Services Competitive Strengths & Weaknesses

9.3 BGS Beta-Gamma-Service

9.3.1 BGS Beta-Gamma-Service Details

9.3.2 BGS Beta-Gamma-Service Major Business

9.3.3 BGS Beta-Gamma-Service Power Semiconductor Electron Beam Irradiation Product and Services

9.3.4 BGS Beta-Gamma-Service Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 BGS Beta-Gamma-Service Recent Developments/Updates

9.3.6 BGS Beta-Gamma-Service Competitive Strengths & Weaknesses

9.4 NHV Corporation

9.4.1 NHV Corporation Details

9.4.2 NHV Corporation Major Business

9.4.3 NHV Corporation Power Semiconductor Electron Beam Irradiation Product and Services

9.4.4 NHV Corporation Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 NHV Corporation Recent Developments/Updates

9.4.6 NHV Corporation Competitive Strengths & Weaknesses

9.5 EB Tech Co., Ltd.

9.5.1 EB Tech Co., Ltd. Details

9.5.2 EB Tech Co., Ltd. Major Business

9.5.3 EB Tech Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

9.5.4 EB Tech Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 EB Tech Co., Ltd. Recent Developments/Updates

9.5.6 EB Tech Co., Ltd. Competitive Strengths & Weaknesses

9.6 ANSTO

9.6.1 ANSTO Details

9.6.2 ANSTO Major Business

- 9.6.3 ANSTO Power Semiconductor Electron Beam Irradiation Product and Services
- 9.6.4 ANSTO Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)
- 9.6.5 ANSTO Recent Developments/Updates
- 9.6.6 ANSTO Competitive Strengths & Weaknesses
- 9.7 BBF Sterilisationsservice GmbH
 - 9.7.1 BBF Sterilisationsservice GmbH Details
 - 9.7.2 BBF Sterilisationsservice GmbH Major Business
 - 9.7.3 BBF Sterilisationsservice GmbH Power Semiconductor Electron Beam Irradiation Product and Services
 - 9.7.4 BBF Sterilisationsservice GmbH Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 BBF Sterilisationsservice GmbH Recent Developments/Updates
 - 9.7.6 BBF Sterilisationsservice GmbH Competitive Strengths & Weaknesses
- 9.8 VPT Components
 - 9.8.1 VPT Components Details
 - 9.8.2 VPT Components Major Business
 - 9.8.3 VPT Components Power Semiconductor Electron Beam Irradiation Product and Services
 - 9.8.4 VPT Components Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)
 - 9.8.5 VPT Components Recent Developments/Updates
 - 9.8.6 VPT Components Competitive Strengths & Weaknesses
- 9.9 Steris
 - 9.9.1 Steris Details
 - 9.9.2 Steris Major Business
 - 9.9.3 Steris Power Semiconductor Electron Beam Irradiation Product and Services
 - 9.9.4 Steris Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Steris Recent Developments/Updates
 - 9.9.6 Steris Competitive Strengths & Weaknesses
- 9.10 CGN Nuclear Technology Development Co., Ltd.
 - 9.10.1 CGN Nuclear Technology Development Co., Ltd. Details
 - 9.10.2 CGN Nuclear Technology Development Co., Ltd. Major Business
 - 9.10.3 CGN Nuclear Technology Development Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services
 - 9.10.4 CGN Nuclear Technology Development Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)
 - 9.10.5 CGN Nuclear Technology Development Co., Ltd. Recent

Developments/Updates

9.10.6 CGN Nuclear Technology Development Co., Ltd. Competitive Strengths & Weaknesses

9.11 Zhongjin Irradiation Incorporated Company

9.11.1 Zhongjin Irradiation Incorporated Company Details

9.11.2 Zhongjin Irradiation Incorporated Company Major Business

9.11.3 Zhongjin Irradiation Incorporated Company Power Semiconductor Electron Beam Irradiation Product and Services

9.11.4 Zhongjin Irradiation Incorporated Company Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Zhongjin Irradiation Incorporated Company Recent Developments/Updates

9.11.6 Zhongjin Irradiation Incorporated Company Competitive Strengths & Weaknesses

9.12 CNNC

9.12.1 CNNC Details

9.12.2 CNNC Major Business

9.12.3 CNNC Power Semiconductor Electron Beam Irradiation Product and Services

9.12.4 CNNC Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 CNNC Recent Developments/Updates

9.12.6 CNNC Competitive Strengths & Weaknesses

9.13 Shandong Lanfu High Energy Physics Technology Corporation Ltd.

9.13.1 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Details

9.13.2 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Major Business

9.13.3 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

9.13.4 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Recent Developments/Updates

9.13.6 Shandong Lanfu High Energy Physics Technology Corporation Ltd. Competitive Strengths & Weaknesses

9.14 Henan Tongwei Xinda Electron Beam Technology Co., Ltd.

9.14.1 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Details

9.14.2 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Major Business

9.14.3 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

9.14.4 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Recent Developments/Updates

9.14.6 Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Competitive Strengths & Weaknesses

9.15 Fangyuan Group

9.15.1 Fangyuan Group Details

9.15.2 Fangyuan Group Major Business

9.15.3 Fangyuan Group Power Semiconductor Electron Beam Irradiation Product and Services

9.15.4 Fangyuan Group Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Fangyuan Group Recent Developments/Updates

9.15.6 Fangyuan Group Competitive Strengths & Weaknesses

9.16 zsfzjs

9.16.1 zsfzjs Details

9.16.2 zsfzjs Major Business

9.16.3 zsfzjs Power Semiconductor Electron Beam Irradiation Product and Services

9.16.4 zsfzjs Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.16.5 zsfzjs Recent Developments/Updates

9.16.6 zsfzjs Competitive Strengths & Weaknesses

9.17 Wuxi EL Pont Group

9.17.1 Wuxi EL Pont Group Details

9.17.2 Wuxi EL Pont Group Major Business

9.17.3 Wuxi EL Pont Group Power Semiconductor Electron Beam Irradiation Product and Services

9.17.4 Wuxi EL Pont Group Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 Wuxi EL Pont Group Recent Developments/Updates

9.17.6 Wuxi EL Pont Group Competitive Strengths & Weaknesses

9.18 Shanghai Shuneng Irradiation Technology Co., Ltd.

9.18.1 Shanghai Shuneng Irradiation Technology Co., Ltd. Details

9.18.2 Shanghai Shuneng Irradiation Technology Co., Ltd. Major Business

9.18.3 Shanghai Shuneng Irradiation Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

9.18.4 Shanghai Shuneng Irradiation Technology Co., Ltd. Power Semiconductor

Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026)

9.18.5 Shanghai Shuneng Irradiation Technology Co., Ltd. Recent Developments/Updates

9.18.6 Shanghai Shuneng Irradiation Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Power Semiconductor Electron Beam Irradiation Industry Chain

10.2 Power Semiconductor Electron Beam Irradiation Upstream Analysis

10.3 Power Semiconductor Electron Beam Irradiation Midstream Analysis

10.4 Power Semiconductor Electron Beam Irradiation Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Power Semiconductor Electron Beam Irradiation Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Power Semiconductor Electron Beam Irradiation Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Power Semiconductor Electron Beam Irradiation Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Power Semiconductor Electron Beam Irradiation Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Power Semiconductor Electron Beam Irradiation Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Power Semiconductor Electron Beam Irradiation Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Power Semiconductor Electron Beam Irradiation Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Power Semiconductor Electron Beam Irradiation Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Power Semiconductor Electron Beam Irradiation Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Power Semiconductor Electron Beam Irradiation Players in 2025

Table 12. World Power Semiconductor Electron Beam Irradiation Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Power Semiconductor Electron Beam Irradiation Company Evaluation Quadrant

Table 14. Head Office of Key Power Semiconductor Electron Beam Irradiation Players

Table 15. Power Semiconductor Electron Beam Irradiation Market: Company Product Type Footprint

Table 16. Power Semiconductor Electron Beam Irradiation Market: Company Product Application Footprint

Table 17. Power Semiconductor Electron Beam Irradiation Mergers & Acquisitions Activity

Table 18. United States VS China Power Semiconductor Electron Beam Irradiation Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Power Semiconductor Electron Beam Irradiation

Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Power Semiconductor Electron Beam Irradiation Companies, Headquarters (States, Country)

Table 21. United States Based Companies Power Semiconductor Electron Beam Irradiation Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Power Semiconductor Electron Beam Irradiation Revenue Market Share (2021-2026)

Table 23. China Based Power Semiconductor Electron Beam Irradiation Companies, Headquarters (Province, Country)

Table 24. China Based Companies Power Semiconductor Electron Beam Irradiation Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Power Semiconductor Electron Beam Irradiation Revenue Market Share (2021-2026)

Table 26. Rest of World Based Power Semiconductor Electron Beam Irradiation Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Power Semiconductor Electron Beam Irradiation Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Power Semiconductor Electron Beam Irradiation Revenue Market Share (2021-2026)

Table 29. World Power Semiconductor Electron Beam Irradiation Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Power Semiconductor Electron Beam Irradiation Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Power Semiconductor Electron Beam Irradiation Market Size by Type (2027-2032) & (USD Million)

Table 32. World Power Semiconductor Electron Beam Irradiation Market Size by Device Type, (USD Million), 2021 & 2025 & 2032

Table 33. World Power Semiconductor Electron Beam Irradiation Market Size Value by Device Type (2021-2026) & (USD Million)

Table 34. World Power Semiconductor Electron Beam Irradiation Market Size by Device Type (2027-2032) & (USD Million)

Table 35. World Power Semiconductor Electron Beam Irradiation Market Size by Irradiation Method, (USD Million), 2021 & 2025 & 2032

Table 36. World Power Semiconductor Electron Beam Irradiation Market Size Value by Irradiation Method (2021-2026) & (USD Million)

Table 37. World Power Semiconductor Electron Beam Irradiation Market Size by Irradiation Method (2027-2032) & (USD Million)

Table 38. World Power Semiconductor Electron Beam Irradiation Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Power Semiconductor Electron Beam Irradiation Market Size by Application (2021-2026) & (USD Million)

Table 40. World Power Semiconductor Electron Beam Irradiation Market Size by Application (2027-2032) & (USD Million)

Table 41. Sterigenics?Nordion? Basic Information, Manufacturing Base and Competitors

Table 42. Sterigenics?Nordion? Major Business

Table 43. Sterigenics?Nordion? Power Semiconductor Electron Beam Irradiation Product and Services

Table 44. Sterigenics?Nordion? Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Sterigenics?Nordion? Recent Developments/Updates

Table 46. Sterigenics?Nordion? Competitive Strengths & Weaknesses

Table 47. E-BEAM Services Basic Information, Manufacturing Base and Competitors

Table 48. E-BEAM Services Major Business

Table 49. E-BEAM Services Power Semiconductor Electron Beam Irradiation Product and Services

Table 50. E-BEAM Services Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. E-BEAM Services Recent Developments/Updates

Table 52. E-BEAM Services Competitive Strengths & Weaknesses

Table 53. BGS Beta-Gamma-Service Basic Information, Manufacturing Base and Competitors

Table 54. BGS Beta-Gamma-Service Major Business

Table 55. BGS Beta-Gamma-Service Power Semiconductor Electron Beam Irradiation Product and Services

Table 56. BGS Beta-Gamma-Service Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. BGS Beta-Gamma-Service Recent Developments/Updates

Table 58. BGS Beta-Gamma-Service Competitive Strengths & Weaknesses

Table 59. NHV Corporation Basic Information, Manufacturing Base and Competitors

Table 60. NHV Corporation Major Business

Table 61. NHV Corporation Power Semiconductor Electron Beam Irradiation Product and Services

Table 62. NHV Corporation Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. NHV Corporation Recent Developments/Updates

Table 64. NHV Corporation Competitive Strengths & Weaknesses

Table 65. EB Tech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 66. EB Tech Co., Ltd. Major Business

Table 67. EB Tech Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

Table 68. EB Tech Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. EB Tech Co., Ltd. Recent Developments/Updates

Table 70. EB Tech Co., Ltd. Competitive Strengths & Weaknesses

Table 71. ANSTO Basic Information, Manufacturing Base and Competitors

Table 72. ANSTO Major Business

Table 73. ANSTO Power Semiconductor Electron Beam Irradiation Product and Services

Table 74. ANSTO Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. ANSTO Recent Developments/Updates

Table 76. ANSTO Competitive Strengths & Weaknesses

Table 77. BBF Sterilisationsservice GmbH Basic Information, Manufacturing Base and Competitors

Table 78. BBF Sterilisationsservice GmbH Major Business

Table 79. BBF Sterilisationsservice GmbH Power Semiconductor Electron Beam Irradiation Product and Services

Table 80. BBF Sterilisationsservice GmbH Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. BBF Sterilisationsservice GmbH Recent Developments/Updates

Table 82. BBF Sterilisationsservice GmbH Competitive Strengths & Weaknesses

Table 83. VPT Components Basic Information, Manufacturing Base and Competitors

Table 84. VPT Components Major Business

Table 85. VPT Components Power Semiconductor Electron Beam Irradiation Product and Services

Table 86. VPT Components Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. VPT Components Recent Developments/Updates

Table 88. VPT Components Competitive Strengths & Weaknesses

Table 89. Steris Basic Information, Manufacturing Base and Competitors

Table 90. Steris Major Business

Table 91. Steris Power Semiconductor Electron Beam Irradiation Product and Services

Table 92. Steris Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. Steris Recent Developments/Updates

Table 94. Steris Competitive Strengths & Weaknesses

- Table 95. CGN Nuclear Technology Development Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 96. CGN Nuclear Technology Development Co., Ltd. Major Business
- Table 97. CGN Nuclear Technology Development Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services
- Table 98. CGN Nuclear Technology Development Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. CGN Nuclear Technology Development Co., Ltd. Recent Developments/Updates
- Table 100. CGN Nuclear Technology Development Co., Ltd. Competitive Strengths & Weaknesses
- Table 101. Zhongjin Irradiation Incorporated Company Basic Information, Manufacturing Base and Competitors
- Table 102. Zhongjin Irradiation Incorporated Company Major Business
- Table 103. Zhongjin Irradiation Incorporated Company Power Semiconductor Electron Beam Irradiation Product and Services
- Table 104. Zhongjin Irradiation Incorporated Company Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. Zhongjin Irradiation Incorporated Company Recent Developments/Updates
- Table 106. Zhongjin Irradiation Incorporated Company Competitive Strengths & Weaknesses
- Table 107. CNNC Basic Information, Manufacturing Base and Competitors
- Table 108. CNNC Major Business
- Table 109. CNNC Power Semiconductor Electron Beam Irradiation Product and Services
- Table 110. CNNC Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 111. CNNC Recent Developments/Updates
- Table 112. CNNC Competitive Strengths & Weaknesses
- Table 113. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Basic Information, Manufacturing Base and Competitors
- Table 114. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Major Business
- Table 115. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Power Semiconductor Electron Beam Irradiation Product and Services
- Table 116. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share

(2021-2026) & (USD Million)

Table 117. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Recent Developments/Updates

Table 118. Shandong Lanfu High Energy Physics Technology Corporation Ltd. Competitive Strengths & Weaknesses

Table 119. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 120. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Major Business

Table 121. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

Table 122. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Recent Developments/Updates

Table 124. Henan Tongwei Xinda Electron Beam Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 125. Fangyuan Group Basic Information, Manufacturing Base and Competitors

Table 126. Fangyuan Group Major Business

Table 127. Fangyuan Group Power Semiconductor Electron Beam Irradiation Product and Services

Table 128. Fangyuan Group Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Fangyuan Group Recent Developments/Updates

Table 130. Fangyuan Group Competitive Strengths & Weaknesses

Table 131. zsfzjs Basic Information, Manufacturing Base and Competitors

Table 132. zsfzjs Major Business

Table 133. zsfzjs Power Semiconductor Electron Beam Irradiation Product and Services

Table 134. zsfzjs Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. zsfzjs Recent Developments/Updates

Table 136. zsfzjs Competitive Strengths & Weaknesses

Table 137. Wuxi EL Pont Group Basic Information, Manufacturing Base and Competitors

Table 138. Wuxi EL Pont Group Major Business

Table 139. Wuxi EL Pont Group Power Semiconductor Electron Beam Irradiation Product and Services

Table 140. Wuxi EL Pont Group Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. Wuxi EL Pont Group Recent Developments/Updates

Table 142. Wuxi EL Pont Group Competitive Strengths & Weaknesses

Table 143. Shanghai Shuneng Irradiation Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 144. Shanghai Shuneng Irradiation Technology Co., Ltd. Major Business

Table 145. Shanghai Shuneng Irradiation Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Product and Services

Table 146. Shanghai Shuneng Irradiation Technology Co., Ltd. Power Semiconductor Electron Beam Irradiation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 147. Shanghai Shuneng Irradiation Technology Co., Ltd. Recent Developments/Updates

Table 148. Shanghai Shuneng Irradiation Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 149. Global Key Players of Power Semiconductor Electron Beam Irradiation Upstream (Raw Materials)

Table 150. Global Power Semiconductor Electron Beam Irradiation Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Power Semiconductor Electron Beam Irradiation Picture
- Figure 2. World Power Semiconductor Electron Beam Irradiation Total Revenue: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Power Semiconductor Electron Beam Irradiation Total Revenue (2021-2032) & (USD Million)
- Figure 4. World Power Semiconductor Electron Beam Irradiation Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
- Figure 5. World Power Semiconductor Electron Beam Irradiation Revenue Market Share by Region (2021-2032), (by Headquarter Location)
- Figure 6. United States Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 7. China Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 8. Europe Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 9. Japan Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 10. South Korea Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 11. ASEAN Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 12. India Based Company Power Semiconductor Electron Beam Irradiation Revenue (2021-2032) & (USD Million)
- Figure 13. Power Semiconductor Electron Beam Irradiation Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 16. World Power Semiconductor Electron Beam Irradiation Consumption Value Market Share by Region (2021-2032)
- Figure 17. United States Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 18. China Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 19. Europe Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)

- Figure 20. Japan Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 21. South Korea Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 22. ASEAN Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 23. India Power Semiconductor Electron Beam Irradiation Consumption Value (2021-2032) & (USD Million)
- Figure 24. Producer Shipments of Power Semiconductor Electron Beam Irradiation by Player Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Power Semiconductor Electron Beam Irradiation Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Power Semiconductor Electron Beam Irradiation Markets in 2025
- Figure 27. United States VS China: Power Semiconductor Electron Beam Irradiation Revenue Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Power Semiconductor Electron Beam Irradiation Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. World Power Semiconductor Electron Beam Irradiation Market Size by Type, (USD Million), 2021 & 2025 & 2032
- Figure 30. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Type in 2025
- Figure 31. 0~2MeV Electron Beam
- Figure 32. 2~5MeV Electron Beam
- Figure 33. 5~10MeV Electron Beam
- Figure 34. >10MeV Electron Beam
- Figure 35. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Type (2021-2032)
- Figure 36. World Power Semiconductor Electron Beam Irradiation Market Size by Device Type, (USD Million), 2021 & 2025 & 2032
- Figure 37. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Device Type in 2025
- Figure 38. MOSFETs
- Figure 39. IGBTs
- Figure 40. Diodes
- Figure 41. Thyristors
- Figure 42. Others
- Figure 43. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Device Type (2021-2032)

Figure 44. World Power Semiconductor Electron Beam Irradiation Market Size by Irradiation Method, (USD Million), 2021 & 2025 & 2032

Figure 45. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Irradiation Method in 2025

Figure 46. Single-side Irradiation

Figure 47. Double-side Irradiation

Figure 48. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Irradiation Method (2021-2032)

Figure 49. World Power Semiconductor Electron Beam Irradiation Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Application in 2025

Figure 51. Automotive Electronics

Figure 52. Industrial Electronics

Figure 53. Aerospace & Defense

Figure 54. Consumer Electronics

Figure 55. Semiconductor R&D / Testing Labs

Figure 56. Other

Figure 57. World Power Semiconductor Electron Beam Irradiation Market Size Market Share by Application (2021-2032)

Figure 58. Power Semiconductor Electron Beam Irradiation Industrial Chain

Figure 59. Methodology

Figure 60. Research Process and Data Source

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