

Global Neutron Generators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Neutron Generators market size is expected to reach \$ 111 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

Neutron generators are neutron source devices which contain compact linear accelerators and that produce neutrons by fusing isotopes of hydrogen together. The fusion reactions take place in these devices by accelerating either deuterium, tritium, or a mixture of these two isotopes into a metal hydride target which also contains deuterium, tritium or a mixture of these isotopes. Fusion of deuterium atoms (D + D) results in the formation of a He-3 ion and a neutron with a kinetic energy of approximately 2.5 MeV. Fusion of a deuterium and a tritium atom (D + T) results in the formation of a He-4 ion and a neutron with a kinetic energy of approximately 14.1 MeV. Neutron generators have applications in medicine, security, and materials analysis.

The major manufacturers of global neutron generators include VNIIA, Adelphi Technology, Thermo Fisher Scientific, etc. The top 5 manufacturers in the world account for more than 75% of the market share.

Product Types

The market for Industrial Neutron Generators can be broadly classified into two categories based on their mobility: Portable Neutron Generators and Stationary Neutron Generators. Among these, Portable Neutron Generators hold the largest market share and are considered the dominant product type. This is due to their flexibility, ease of transport, and ability to be used in diverse applications where mobility is crucial.

Applications

Industrial Neutron Generators have a wide range of applications, and key sectors contributing to the market's growth include Oil Prospecting, Security, Research, and Others. Among these, the Oil Prospecting and Research sectors hold the largest market share.

Oil Prospecting: One of the primary areas where these systems are in high demand is oil exploration. The oil industry relies heavily on remote sensing and monitoring equipment to perform geological surveys and assessments. The ability to operate equipment remotely in hazardous or inaccessible environments significantly reduces risks and operational costs. The use of portable neutron generators for subsurface analysis and exploration is essential for extracting oil and gas in an efficient and environmentally safe manner.

Research: The research sector is another major consumer of industrial remote control systems, particularly for scientific investigations that require detailed, accurate data collection in various settings. For instance, portable neutron generators are widely used in materials research, nuclear physics, and medical diagnostics, where precise control of experimental conditions is necessary. In this sector, the ability to control complex systems remotely without interference from human presence is highly valued.

Regional Market Insights

North America is the largest consumer market for Industrial Neutron Generators, accounting for approximately 38% of the global market share. This is primarily due to the significant industrial activities in the region, particularly in the oil and gas, defense, and manufacturing sectors. The presence of key manufacturers, technological advancements, and increased adoption of wireless communication systems in industries contribute to the dominance of North America.

The United States, being a hub for energy production and technological innovation, plays a central role in driving demand for these systems. The continued exploration and extraction of oil and gas, as well as extensive research in materials science and other advanced fields, ensure that remote control systems remain essential in North American industries.

Other regions, such as Europe and Asia-Pacific, also contribute significantly to the market, driven by increasing automation and industrialization. However, the market growth in these regions is slightly slower than in North America due to the varying levels

of technological infrastructure and industrial investment.

Conclusion

In conclusion, the market for Industrial Neutron Generators is set to continue its growth, driven by key applications in oil exploration, research, and security, with Portable Neutron Generators leading the market. North America remains the largest consumer of these systems, owing to its industrial activity and technological advancements. As industries continue to prioritize safety, efficiency, and automation, the adoption of industrial remote control systems is expected to expand across multiple sectors, offering opportunities for innovation and growth in the coming years.

This report studies the global Neutron Generators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Neutron Generators 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 Neutron Generators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Neutron Generators total production and demand, 2021-2032, (Units)

Global Neutron Generators total production value, 2021-2032, (USD Million)

Global Neutron Generators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Neutron Generators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Neutron Generators domestic production, consumption, key domestic manufacturers and share

Global Neutron Generators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Neutron Generators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Neutron Generators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Neutron Generators market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SHINE (Phoenix), Sodern, Thermo Fisher Scientific, VNIIA, Adelphi Technology, AMETEK ORTEC, Gradel (NSD Fusion), Pan-China Detect Technolo Co.Ltd., Starfire Industries, 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 Neutron Generators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K USD/Unit) by manufacturer, 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 Neutron Generators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Neutron Generators Market, Segmentation by Type:

Portable Neutron Generators

Stationary Neutron Generators

Global Neutron Generators Market, Segmentation by Application:

Oil Prospecting

Security

Research

Others

Companies Profiled:

SHINE (Phoenix)

Sodern

Thermo Fisher Scientific

VNIIA

Adelphi Technology

AMETEK ORTEC

Gradel (NSD Fusion)

Pan-China Detect Technolo Co.Ltd.

Starfire Industries

Key Questions Answered:

1. How big is the global Neutron Generators market?

2. What is the demand of the global Neutron Generators market?
3. What is the year over year growth of the global Neutron Generators market?
4. What is the production and production value of the global Neutron Generators market?
5. Who are the key producers in the global Neutron Generators market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Neutron Generators Introduction
- 1.2 World Neutron Generators Supply & Forecast
 - 1.2.1 World Neutron Generators Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Neutron Generators Production (2021-2032)
 - 1.2.3 World Neutron Generators Pricing Trends (2021-2032)
- 1.3 World Neutron Generators Production by Region (Based on Production Site)
 - 1.3.1 World Neutron Generators Production Value by Region (2021-2032)
 - 1.3.2 World Neutron Generators Production by Region (2021-2032)
 - 1.3.3 World Neutron Generators Average Price by Region (2021-2032)
 - 1.3.4 North America Neutron Generators Production (2021-2032)
 - 1.3.5 Europe Neutron Generators Production (2021-2032)
 - 1.3.6 Asia-Pacific Neutron Generators Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Neutron Generators Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Neutron Generators Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Neutron Generators Demand (2021-2032)
- 2.2 World Neutron Generators Consumption by Region
 - 2.2.1 World Neutron Generators Consumption by Region (2021-2026)
 - 2.2.2 World Neutron Generators Consumption Forecast by Region (2027-2032)
- 2.3 United States Neutron Generators Consumption (2021-2032)
- 2.4 China Neutron Generators Consumption (2021-2032)
- 2.5 Europe Neutron Generators Consumption (2021-2032)
- 2.6 Japan Neutron Generators Consumption (2021-2032)
- 2.7 South Korea Neutron Generators Consumption (2021-2032)
- 2.8 ASEAN Neutron Generators Consumption (2021-2032)
- 2.9 India Neutron Generators Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Neutron Generators Production Value by Manufacturer (2021-2026)
- 3.2 World Neutron Generators Production by Manufacturer (2021-2026)

3.3 World Neutron Generators Average Price by Manufacturer (2021-2026)

3.4 Neutron Generators Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Neutron Generators Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Neutron Generators in 2025

3.5.3 Global Concentration Ratios (CR8) for Neutron Generators in 2025

3.6 Neutron Generators Market: Overall Company Footprint Analysis

3.6.1 Neutron Generators Market: Region Footprint

3.6.2 Neutron Generators Market: Company Product Type Footprint

3.6.3 Neutron Generators Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Neutron Generators Production Value Comparison

4.1.1 United States VS China: Neutron Generators Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Neutron Generators Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Neutron Generators Production Comparison

4.2.1 United States VS China: Neutron Generators Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Neutron Generators Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Neutron Generators Consumption Comparison

4.3.1 United States VS China: Neutron Generators Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Neutron Generators Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Neutron Generators Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Neutron Generators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Neutron Generators Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Neutron Generators Production (2021-2026)

4.5 China Based Neutron Generators Manufacturers and Market Share

4.5.1 China Based Neutron Generators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Neutron Generators Production Value (2021-2026)

4.5.3 China Based Manufacturers Neutron Generators Production (2021-2026)

4.6 Rest of World Based Neutron Generators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Neutron Generators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Neutron Generators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Neutron Generators Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Neutron Generators Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Portable Neutron Generators

5.2.2 Stationary Neutron Generators

5.3 Market Segment by Type

5.3.1 World Neutron Generators Production by Type (2021-2032)

5.3.2 World Neutron Generators Production Value by Type (2021-2032)

5.3.3 World Neutron Generators Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Neutron Generators Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Oil Prospecting

6.2.2 Security

6.2.3 Research

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Neutron Generators Production by Application (2021-2032)

6.3.2 World Neutron Generators Production Value by Application (2021-2032)

6.3.3 World Neutron Generators Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 SHINE (Phoenix)

7.1.1 SHINE (Phoenix) Details

7.1.2 SHINE (Phoenix) Major Business

7.1.3 SHINE (Phoenix) Neutron Generators Product and Services

7.1.4 SHINE (Phoenix) Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 SHINE (Phoenix) Recent Developments/Updates

7.1.6 SHINE (Phoenix) Competitive Strengths & Weaknesses

7.2 Sodern

7.2.1 Sodern Details

7.2.2 Sodern Major Business

7.2.3 Sodern Neutron Generators Product and Services

7.2.4 Sodern Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 Sodern Recent Developments/Updates

7.2.6 Sodern Competitive Strengths & Weaknesses

7.3 Thermo Fisher Scientific

7.3.1 Thermo Fisher Scientific Details

7.3.2 Thermo Fisher Scientific Major Business

7.3.3 Thermo Fisher Scientific Neutron Generators Product and Services

7.3.4 Thermo Fisher Scientific Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 Thermo Fisher Scientific Recent Developments/Updates

7.3.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses

7.4 VNIIA

7.4.1 VNIIA Details

7.4.2 VNIIA Major Business

7.4.3 VNIIA Neutron Generators Product and Services

7.4.4 VNIIA Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 VNIIA Recent Developments/Updates

7.4.6 VNIIA Competitive Strengths & Weaknesses

7.5 Adelphi Technology

7.5.1 Adelphi Technology Details

7.5.2 Adelphi Technology Major Business

7.5.3 Adelphi Technology Neutron Generators Product and Services

7.5.4 Adelphi Technology Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.5.5 Adelphi Technology Recent Developments/Updates

7.5.6 Adelphi Technology Competitive Strengths & Weaknesses

7.6 AMETEK ORTEC

7.6.1 AMETEK ORTEC Details

7.6.2 AMETEK ORTEC Major Business

7.6.3 AMETEK ORTEC Neutron Generators Product and Services

7.6.4 AMETEK ORTEC Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 AMETEK ORTEC Recent Developments/Updates

7.6.6 AMETEK ORTEC Competitive Strengths & Weaknesses

7.7 Gradel (NSD Fusion)

7.7.1 Gradel (NSD Fusion) Details

7.7.2 Gradel (NSD Fusion) Major Business

7.7.3 Gradel (NSD Fusion) Neutron Generators Product and Services

7.7.4 Gradel (NSD Fusion) Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Gradel (NSD Fusion) Recent Developments/Updates

7.7.6 Gradel (NSD Fusion) Competitive Strengths & Weaknesses

7.8 Pan-China Detect Technolo Co.Ltd.

7.8.1 Pan-China Detect Technolo Co.Ltd. Details

7.8.2 Pan-China Detect Technolo Co.Ltd. Major Business

7.8.3 Pan-China Detect Technolo Co.Ltd. Neutron Generators Product and Services

7.8.4 Pan-China Detect Technolo Co.Ltd. Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.8.5 Pan-China Detect Technolo Co.Ltd. Recent Developments/Updates

7.8.6 Pan-China Detect Technolo Co.Ltd. Competitive Strengths & Weaknesses

7.9 Starfire Industries

7.9.1 Starfire Industries Details

7.9.2 Starfire Industries Major Business

7.9.3 Starfire Industries Neutron Generators Product and Services

7.9.4 Starfire Industries Neutron Generators Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.9.5 Starfire Industries Recent Developments/Updates

7.9.6 Starfire Industries Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Neutron Generators Industry Chain
- 8.2 Neutron Generators Upstream Analysis
 - 8.2.1 Neutron Generators Core Raw Materials
 - 8.2.2 Main Manufacturers of Neutron Generators Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Neutron Generators Production Mode
- 8.6 Neutron Generators Procurement Model
- 8.7 Neutron Generators Industry Sales Model and Sales Channels
 - 8.7.1 Neutron Generators Sales Model
 - 8.7.2 Neutron Generators Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Neutron Generators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Neutron Generators Production Value by Region (2021-2026) & (USD Million)

Table 3. World Neutron Generators Production Value by Region (2027-2032) & (USD Million)

Table 4. World Neutron Generators Production Value Market Share by Region (2021-2026)

Table 5. World Neutron Generators Production Value Market Share by Region (2027-2032)

Table 6. World Neutron Generators Production by Region (2021-2026) & (Units)

Table 7. World Neutron Generators Production by Region (2027-2032) & (Units)

Table 8. World Neutron Generators Production Market Share by Region (2021-2026)

Table 9. World Neutron Generators Production Market Share by Region (2027-2032)

Table 10. World Neutron Generators Average Price by Region (2021-2026) & (K USD/Unit)

Table 11. World Neutron Generators Average Price by Region (2027-2032) & (K USD/Unit)

Table 12. Neutron Generators Major Market Trends

Table 13. World Neutron Generators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Neutron Generators Consumption by Region (2021-2026) & (Units)

Table 15. World Neutron Generators Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Neutron Generators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Neutron Generators Producers in 2025

Table 18. World Neutron Generators Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Neutron Generators Producers in 2025

Table 20. World Neutron Generators Average Price by Manufacturer (2021-2026) & (K USD/Unit)

Table 21. Global Neutron Generators Company Evaluation Quadrant

Table 22. World Neutron Generators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Neutron Generators Production Site of Key Manufacturer

- Table 24. Neutron Generators Market: Company Product Type Footprint
- Table 25. Neutron Generators Market: Company Product Application Footprint
- Table 26. Neutron Generators Competitive Factors
- Table 27. Neutron Generators New Entrant and Capacity Expansion Plans
- Table 28. Neutron Generators Mergers & Acquisitions Activity
- Table 29. United States VS China Neutron Generators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Neutron Generators Production Comparison, (2021 & 2025 & 2032) & (Units)
- Table 31. United States VS China Neutron Generators Consumption Comparison, (2021 & 2025 & 2032) & (Units)
- Table 32. United States Based Neutron Generators Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Neutron Generators Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Neutron Generators Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Neutron Generators Production (2021-2026) & (Units)
- Table 36. United States Based Manufacturers Neutron Generators Production Market Share (2021-2026)
- Table 37. China Based Neutron Generators Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Neutron Generators Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Neutron Generators Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Neutron Generators Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Neutron Generators Production Market Share (2021-2026)
- Table 42. Rest of World Based Neutron Generators Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Neutron Generators Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Neutron Generators Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Neutron Generators Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Neutron Generators Production Market Share (2021-2026)

Table 47. World Neutron Generators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Neutron Generators Production by Type (2021-2026) & (Units)

Table 49. World Neutron Generators Production by Type (2027-2032) & (Units)

Table 50. World Neutron Generators Production Value by Type (2021-2026) & (USD Million)

Table 51. World Neutron Generators Production Value by Type (2027-2032) & (USD Million)

Table 52. World Neutron Generators Average Price by Type (2021-2026) & (K USD/Unit)

Table 53. World Neutron Generators Average Price by Type (2027-2032) & (K USD/Unit)

Table 54. World Neutron Generators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Neutron Generators Production by Application (2021-2026) & (Units)

Table 56. World Neutron Generators Production by Application (2027-2032) & (Units)

Table 57. World Neutron Generators Production Value by Application (2021-2026) & (USD Million)

Table 58. World Neutron Generators Production Value by Application (2027-2032) & (USD Million)

Table 59. World Neutron Generators Average Price by Application (2021-2026) & (K USD/Unit)

Table 60. World Neutron Generators Average Price by Application (2027-2032) & (K USD/Unit)

Table 61. SHINE (Phoenix) Basic Information, Manufacturing Base and Competitors

Table 62. SHINE (Phoenix) Major Business

Table 63. SHINE (Phoenix) Neutron Generators Product and Services

Table 64. SHINE (Phoenix) Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. SHINE (Phoenix) Recent Developments/Updates

Table 66. SHINE (Phoenix) Competitive Strengths & Weaknesses

Table 67. Sodern Basic Information, Manufacturing Base and Competitors

Table 68. Sodern Major Business

Table 69. Sodern Neutron Generators Product and Services

Table 70. Sodern Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Sodern Recent Developments/Updates

- Table 72. Sodern Competitive Strengths & Weaknesses
- Table 73. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors
- Table 74. Thermo Fisher Scientific Major Business
- Table 75. Thermo Fisher Scientific Neutron Generators Product and Services
- Table 76. Thermo Fisher Scientific Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Thermo Fisher Scientific Recent Developments/Updates
- Table 78. Thermo Fisher Scientific Competitive Strengths & Weaknesses
- Table 79. VNIIA Basic Information, Manufacturing Base and Competitors
- Table 80. VNIIA Major Business
- Table 81. VNIIA Neutron Generators Product and Services
- Table 82. VNIIA Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. VNIIA Recent Developments/Updates
- Table 84. VNIIA Competitive Strengths & Weaknesses
- Table 85. Adelphi Technology Basic Information, Manufacturing Base and Competitors
- Table 86. Adelphi Technology Major Business
- Table 87. Adelphi Technology Neutron Generators Product and Services
- Table 88. Adelphi Technology Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. Adelphi Technology Recent Developments/Updates
- Table 90. Adelphi Technology Competitive Strengths & Weaknesses
- Table 91. AMETEK ORTEC Basic Information, Manufacturing Base and Competitors
- Table 92. AMETEK ORTEC Major Business
- Table 93. AMETEK ORTEC Neutron Generators Product and Services
- Table 94. AMETEK ORTEC Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. AMETEK ORTEC Recent Developments/Updates
- Table 96. AMETEK ORTEC Competitive Strengths & Weaknesses
- Table 97. Gradel (NSD Fusion) Basic Information, Manufacturing Base and Competitors
- Table 98. Gradel (NSD Fusion) Major Business
- Table 99. Gradel (NSD Fusion) Neutron Generators Product and Services
- Table 100. Gradel (NSD Fusion) Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Gradel (NSD Fusion) Recent Developments/Updates

Table 102. Gradel (NSD Fusion) Competitive Strengths & Weaknesses

Table 103. Pan-China Detect Technolo Co.Ltd. Basic Information, Manufacturing Base and Competitors

Table 104. Pan-China Detect Technolo Co.Ltd. Major Business

Table 105. Pan-China Detect Technolo Co.Ltd. Neutron Generators Product and Services

Table 106. Pan-China Detect Technolo Co.Ltd. Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Pan-China Detect Technolo Co.Ltd. Recent Developments/Updates

Table 108. Pan-China Detect Technolo Co.Ltd. Competitive Strengths & Weaknesses

Table 109. Starfire Industries Basic Information, Manufacturing Base and Competitors

Table 110. Starfire Industries Major Business

Table 111. Starfire Industries Neutron Generators Product and Services

Table 112. Starfire Industries Neutron Generators Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. Starfire Industries Recent Developments/Updates

Table 114. Starfire Industries Competitive Strengths & Weaknesses

Table 115. Global Key Players of Neutron Generators Upstream (Raw Materials)

Table 116. Global Neutron Generators Typical Customers

Table 117. Neutron Generators Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Neutron Generators Picture

Figure 2. World Neutron Generators Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Neutron Generators Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Neutron Generators Production (2021-2032) & (Units)

Figure 5. World Neutron Generators Average Price (2021-2032) & (K USD/Unit)

Figure 6. World Neutron Generators Production Value Market Share by Region (2021-2032)

Figure 7. World Neutron Generators Production Market Share by Region (2021-2032)

Figure 8. North America Neutron Generators Production (2021-2032) & (Units)

Figure 9. Europe Neutron Generators Production (2021-2032) & (Units)

Figure 10. Asia-Pacific Neutron Generators Production (2021-2032) & (Units)

Figure 11. Neutron Generators Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Neutron Generators Consumption (2021-2032) & (Units)

Figure 14. World Neutron Generators Consumption Market Share by Region (2021-2032)

Figure 15. United States Neutron Generators Consumption (2021-2032) & (Units)

Figure 16. China Neutron Generators Consumption (2021-2032) & (Units)

Figure 17. Europe Neutron Generators Consumption (2021-2032) & (Units)

Figure 18. Japan Neutron Generators Consumption (2021-2032) & (Units)

Figure 19. South Korea Neutron Generators Consumption (2021-2032) & (Units)

Figure 20. ASEAN Neutron Generators Consumption (2021-2032) & (Units)

Figure 21. India Neutron Generators Consumption (2021-2032) & (Units)

Figure 22. Producer Shipments of Neutron Generators by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Neutron Generators Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Neutron Generators Markets in 2025

Figure 25. United States VS China: Neutron Generators Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Neutron Generators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Neutron Generators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Neutron Generators Production Market Share 2025

Figure 29. China Based Manufacturers Neutron Generators Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Neutron Generators Production Market Share 2025

Figure 31. World Neutron Generators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Neutron Generators Production Value Market Share by Type in 2025

Figure 33. Portable Neutron Generators

Figure 34. Stationary Neutron Generators

Figure 35. World Neutron Generators Production Market Share by Type (2021-2032)

Figure 36. World Neutron Generators Production Value Market Share by Type (2021-2032)

Figure 37. World Neutron Generators Average Price by Type (2021-2032) & (K USD/Unit)

Figure 38. World Neutron Generators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 39. World Neutron Generators Production Value Market Share by Application in 2025

Figure 40. Oil Prospecting

Figure 41. Security

Figure 42. Research

Figure 43. Others

Figure 44. World Neutron Generators Production Market Share by Application (2021-2032)

Figure 45. World Neutron Generators Production Value Market Share by Application (2021-2032)

Figure 46. World Neutron Generators Average Price by Application (2021-2032) & (K USD/Unit)

Figure 47. Neutron Generators Industry Chain

Figure 48. Neutron Generators Procurement Model

Figure 49. Neutron Generators Sales Model

Figure 50. Neutron Generators Sales Channels, Direct Sales, and Distribution

Figure 51. Methodology

Figure 52. Research Process and Data Source

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