

Global Ion Source Accelerated Neutron Generator Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Ion Source Accelerated Neutron Generator market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An ion source accelerated neutron generator is a compact neutron generator that seals the ion source, acceleration gap, target, etc. in a tube, and generates neutrons by accelerating charged particles (such as protons, deuterium, etc.) and bombarding the target nuclei. This device has a compact structure, small size, is easy to carry and use, and is a very practical neutron source.

Ion source accelerated neutron generators are widely used in basic research fields such as nuclear physics, experimental research fields such as neutron activation analysis and neutron protection, and industrial and agricultural production fields. For example, in oil exploration, neutron generators can be used for neutron logging to detect oil and gas resources in the formation; in the medical field, neutron generators can be used for neutron therapy to treat certain types of cancer.

This report is a detailed and comprehensive analysis for global Ion Source Accelerated Neutron Generator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ion Source Accelerated Neutron Generator market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Ion Source Accelerated Neutron Generator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Ion Source Accelerated Neutron Generator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Ion Source Accelerated Neutron Generator market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Ion Source Accelerated Neutron Generator
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Ion Source Accelerated Neutron Generator market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Del Mar Ventures, Adelphi Technology, KAERI, Brookhaven, Thermo Fisher Scientific, National Instruments, Beckman Coulter, General Atomics, etc.

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

Market Segmentation

Ion Source Accelerated Neutron Generator market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

ECR Ion Source

Piezoelectric Ion Source

Others

Market segment by Application

Scientific Research Field

Industrial Field

Medical Field

Others

Major players covered

Del Mar Ventures

Adelphi Technology

KAERI

Brookhaven

Thermo Fisher Scientific

National Instruments

Beckman Coulter

General Atomics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ion Source Accelerated Neutron Generator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ion Source Accelerated Neutron Generator, with price, sales quantity, revenue, and global market share of Ion Source Accelerated Neutron Generator from 2020 to 2025.

Chapter 3, the Ion Source Accelerated Neutron Generator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ion Source Accelerated Neutron Generator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025. and Ion Source Accelerated Neutron Generator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ion Source Accelerated Neutron Generator.

Chapter 14 and 15, to describe Ion Source Accelerated Neutron Generator sales channel, distributors, customers, research findings and conclusion.

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