

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Neutron Generators Market 2018, Forecast to 2023

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## Abstracts

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.

## SCOPE OF THE REPORT:

This report focuses on the Neutron Generators in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. For industry structure analysis, the Neutron Generators industry is relatively concentrated. These manufacturers range from large multinational corporations to small privately owned companies compete in this industry. The top five producers account for above 75 % of the revenue market. Regionally, North America is the biggest revenue area of valves, also the leader in the whole Neutron Generators industry. North America occupied 41.51% % of the sales market in 2017. It is followed by Europe and APAC (Except Japan), which respectively account for around 24.53% and 18.87% of the global total industry. Other countries have a smaller amount of sales. For price trend analysis, a key variable in the performance of Neutron Generators producers is raw material costs, specifically the speed at which any increase can be

passed through to customers.

The worldwide market for Neutron Generators is expected to grow at a CAGR of roughly 12.1% over the next five years, will reach 52 million US\$ in 2023, from 26 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Phoenix

Sodern

Thermo Fisher Scientific

VNIIA

Adelphi Technology

AMETEK ORTEC

Gradel (NSD Fusion)

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Portable Neutron Generators

## Stationary Neutron Generators

Market Segment by Applications, can be divided into

Oil Prospecting

Security

Research

Others

There are 15 Chapters to deeply display the global Neutron Generators market.

Chapter 1, to describe Neutron Generators Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Neutron Generators, with sales, revenue, and price of Neutron Generators, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Neutron Generators, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Neutron Generators market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Neutron Generators sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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