

Global XRD Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global XRD market size was valued at USD 717.2 million in 2023 and is forecast to a readjusted size of USD 896.8 million by 2030 with a CAGR of 3.2% during review period.

X-ray Diffraction Instrument or X-ray Diffractometer (XRD) is a laboratory-based technique commonly used for identification of crystalline materials and analysis of unit cell dimensions. One of two primary types of XRD analysis (X-ray powder diffraction and single-crystal XRD) is commonly applied to samples to obtain specific information about the crystalline material under investigation. X-ray powder diffraction is widely used in geology, environmental science, material science, and engineering to rapidly identify unknown crystalline substances (typically in less than 20 minutes). A pure, finely ground, and homogenized sample is required for determination of the bulk composition. Additional uses include detailed characterization of crystalline samples, determination of unit cell dimensions, and quantitative determination of modal amounts of minerals in a sample. X-ray powder diffraction can also be applied to the identification of fine-grained minerals.

Global key players of XRD include Rigaku, Bruker, PANalytical, Shimadzu, Thermo Fisher, etc. The top three players hold a share over 60%. Asia-Pacific is the largest market, has a share about 43%, followed by Europe and North America, with share 25% and 20%, separately. In terms of product type, Powder XRD is the largest segment, occupied for a share of 90%, and in terms of application, Biotech has a share about 30 percent.

The Global Info Research report includes an overview of the development of the XRD industry chain, the market status of Pharma (Powder XRD, Single-crystal XRD), Biotech

(Powder XRD, Single-crystal XRD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of XRD.

Regionally, the report analyzes the XRD markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global XRD market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the XRD market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the XRD industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Powder XRD, Single-crystal XRD).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the XRD market.

Regional Analysis: The report involves examining the XRD market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the XRD market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to XRD:

Company Analysis: Report covers individual XRD manufacturers, suppliers, and other

relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards XRD. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Pharma, Biotech).

Technology Analysis: Report covers specific technologies relevant to XRD. It assesses the current state, advancements, and potential future developments in XRD areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the XRD market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

XRD market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Powder XRD

Single-crystal XRD

Market segment by Application

Pharma

Biotech

Chemical

Scientific Research Institutes

Others

Major players covered

Rigaku

Bruker

PANalytical

Shimadzu

Thermo Fisher

Evident (OLYMPUS)

Bourestnik, Inc.

Hao Yuan Instrument

Tongda

Persee

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 XRD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of XRD, with price, sales, revenue and global market share of XRD from 2019 to 2024.

Chapter 3, the XRD competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the XRD breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and XRD market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 XRD.

Chapter 14 and 15, to describe XRD sales channel, distributors, customers, research findings and conclusion.

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