

# Global XRD Instruments Market Growth 2023-2029

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## Abstracts

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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.

LPI (LP Information)' newest research report, the "XRD Instruments Industry Forecast" looks at past sales and reviews total world XRD Instruments sales in 2022, providing a comprehensive analysis by region and market sector of projected XRD Instruments sales for 2023 through 2029. With XRD Instruments sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world XRD Instruments industry.

This Insight Report provides a comprehensive analysis of the global XRD Instruments landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on XRD Instruments portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global XRD Instruments market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for XRD Instruments and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global XRD Instruments.

The global XRD Instruments market size is projected to grow from US\$ 681.8 million in 2022 to US\$ 869.1 million in 2029; it is expected to grow at a CAGR of 869.1 from 2023 to 2029.

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.

This report presents a comprehensive overview, market shares, and growth opportunities of XRD Instruments market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Powder XRD

Single-crystal XRD

Segmentation by application

Pharma

Biotech

Chemical

Scientific Research Institutes

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Rigaku

Bruker

Panalytical

Shimadzu

Thermo Fisher

Innox-X

Bourestnik, Inc.

Hao Yuan Instrument

Tongda

Persee

### Key Questions Addressed in this Report

What is the 10-year outlook for the global XRD Instruments market?

What factors are driving XRD Instruments market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do XRD Instruments market opportunities vary by end market size?

How does XRD Instruments break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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