

Global X-ray Diffraction Equipment 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 "X-ray Diffraction Equipment Industry Forecast" looks at past sales and reviews total world X-ray Diffraction Equipment sales in 2022, providing a comprehensive analysis by region and market sector of projected X-ray Diffraction Equipment sales for 2023 through 2029. With X-ray Diffraction Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world X-ray Diffraction Equipment industry.

This Insight Report provides a comprehensive analysis of the global X-ray Diffraction Equipment 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 X-ray Diffraction Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global X-ray Diffraction Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for X-ray Diffraction Equipment 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 X-ray Diffraction Equipment.

The global X-ray Diffraction Equipment market size is projected to grow from US\$ 672.3 million in 2022 to US\$ 856.9 million in 2029; it is expected to grow at a CAGR of 3.5% from 2023 to 2029.

Asia-Pacific holds a big market share of the X-ray Diffraction Instrument market and accounted for over 40% of the global revenue share. The region is characterized by the presence of a large number of service providers, especially in the Japan and China. At present, the major players of X-ray Diffraction Instrument in the world include: Rigaku, Bruker, PANalytical, Shimadzu and Thermo Fisher, among which Rigaku is the world's largest X-ray Diffraction Instrument manufacturer, its market share is about 29%. Nowadays, there are two mainly types of X-ray Diffraction Instrument, including X-ray powder diffraction and Single-crystal XRD. And X-ray powder diffraction is the main type for X-ray Diffraction Instrument, and the X-ray powder diffraction, with 90% of global sales volume.

This report presents a comprehensive overview, market shares, and growth opportunities of X-ray Diffraction Equipment 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 (OLYMPUS)

Bourestnik

Hao Yuan Instrument

Tongda

Persee

Key Questions Addressed in this Report

What is the 10-year outlook for the global X-ray Diffraction Equipment market?

What factors are driving X-ray Diffraction Equipment market growth, globally and by region?

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

How do X-ray Diffraction Equipment market opportunities vary by end market size?

How does X-ray Diffraction Equipment break out type, application?

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

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