

X-Ray Diffraction Instrument Industry Research Report 2024

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Abstracts

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.

According to APO Research, The global X-Ray Diffraction Instrument market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

Report Scope

This report aims to provide a comprehensive presentation of the global market for X-Ray Diffraction Instrument, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding X-Ray Diffraction Instrument.

The report will help the X-Ray Diffraction Instrument manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The X-Ray Diffraction Instrument market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global X-Ray Diffraction Instrument market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Rigaku

Bruker

PANalytical

Shimadzu

Thermo Fisher

Innox-X (OLYMPUS)

Bourestnik, Inc.

Hao Yuan Instrument

Tongda

Persee

X-Ray Diffraction Instrument segment by Type

Powder XRD

Single-crystal XRD

X-Ray Diffraction Instrument segment by Application

Pharma

Biotech

Chemical

Scientific Research Institutes

Others

X-Ray Diffraction Instrument Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global X-Ray Diffraction Instrument market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of X-Ray Diffraction Instrument and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of X-Ray Diffraction Instrument.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of X-Ray Diffraction Instrument manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of X-Ray Diffraction Instrument by region/country. It

provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of X-Ray Diffraction Instrument in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 X-Ray Diffraction Instrument by Type
 - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.2.2 Powder XRD
 - 2.2.3 Single-crystal XRD
- 2.3 X-Ray Diffraction Instrument by Application
 - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 Pharma
 - 2.3.3 Biotech
 - 2.3.4 Chemical
 - 2.3.5 Scientific Research Institutes
 - 2.3.6 Others
- 2.4 Global Market Growth Prospects
 - 2.4.1 Global X-Ray Diffraction Instrument Production Value Estimates and Forecasts (2019-2030)
 - 2.4.2 Global X-Ray Diffraction Instrument Production Capacity Estimates and Forecasts (2019-2030)
 - 2.4.3 Global X-Ray Diffraction Instrument Production Estimates and Forecasts (2019-2030)
 - 2.4.4 Global X-Ray Diffraction Instrument Market Average Price (2019-2030)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global X-Ray Diffraction Instrument Production by Manufacturers (2019-2024)

- 3.2 Global X-Ray Diffraction Instrument Production Value by Manufacturers (2019-2024)
- 3.3 Global X-Ray Diffraction Instrument Average Price by Manufacturers (2019-2024)
- 3.4 Global X-Ray Diffraction Instrument Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global X-Ray Diffraction Instrument Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global X-Ray Diffraction Instrument Manufacturers, Product Type & Application
- 3.7 Global X-Ray Diffraction Instrument Manufacturers, Date of Enter into This Industry
- 3.8 Global X-Ray Diffraction Instrument Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 Rigaku

- 4.1.1 Rigaku X-Ray Diffraction Instrument Company Information
- 4.1.2 Rigaku X-Ray Diffraction Instrument Business Overview
- 4.1.3 Rigaku X-Ray Diffraction Instrument Production, Value and Gross Margin (2019-2024)
- 4.1.4 Rigaku Product Portfolio
- 4.1.5 Rigaku Recent Developments

4.2 Bruker

- 4.2.1 Bruker X-Ray Diffraction Instrument Company Information
- 4.2.2 Bruker X-Ray Diffraction Instrument Business Overview
- 4.2.3 Bruker X-Ray Diffraction Instrument Production, Value and Gross Margin (2019-2024)
- 4.2.4 Bruker Product Portfolio
- 4.2.5 Bruker Recent Developments

4.3 PANalytical

- 4.3.1 PANalytical X-Ray Diffraction Instrument Company Information
- 4.3.2 PANalytical X-Ray Diffraction Instrument Business Overview
- 4.3.3 PANalytical X-Ray Diffraction Instrument Production, Value and Gross Margin (2019-2024)
- 4.3.4 PANalytical Product Portfolio
- 4.3.5 PANalytical Recent Developments

4.4 Shimadzu

- 4.4.1 Shimadzu X-Ray Diffraction Instrument Company Information
- 4.4.2 Shimadzu X-Ray Diffraction Instrument Business Overview
- 4.4.3 Shimadzu X-Ray Diffraction Instrument Production, Value and Gross Margin

(2019-2024)

4.4.4 Shimadzu Product Portfolio

4.4.5 Shimadzu Recent Developments

4.5 Thermo Fisher

4.5.1 Thermo Fisher X-Ray Diffraction Instrument Company Information

4.5.2 Thermo Fisher X-Ray Diffraction Instrument Business Overview

4.5.3 Thermo Fisher X-Ray Diffraction Instrument Production, Value and Gross Margin

(2019-2024)

4.5.4 Thermo Fisher Product Portfolio

4.5.5 Thermo Fisher Recent Developments

4.6 Innox-X (OLYMPUS)

4.6.1 Innox-X (OLYMPUS) X-Ray Diffraction Instrument Company Information

4.6.2 Innox-X (OLYMPUS) X-Ray Diffraction Instrument Business Overview

4.6.3 Innox-X (OLYMPUS) X-Ray Diffraction Instrument Production, Value and Gross

Margin (2019-2024)

4.6.4 Innox-X (OLYMPUS) Product Portfolio

4.6.5 Innox-X (OLYMPUS) Recent Developments

4.7 Bourevestnik, Inc.

4.7.1 Bourevestnik, Inc. X-Ray Diffraction Instrument Company Information

4.7.2 Bourevestnik, Inc. X-Ray Diffraction Instrument Business Overview

4.7.3 Bourevestnik, Inc. X-Ray Diffraction Instrument Production, Value and Gross

Margin (2019-2024)

4.7.4 Bourevestnik, Inc. Product Portfolio

4.7.5 Bourevestnik, Inc. Recent Developments

4.8 Hao Yuan Instrument

4.8.1 Hao Yuan Instrument X-Ray Diffraction Instrument Company Information

4.8.2 Hao Yuan Instrument X-Ray Diffraction Instrument Business Overview

4.8.3 Hao Yuan Instrument X-Ray Diffraction Instrument Production, Value and Gross

Margin (2019-2024)

4.8.4 Hao Yuan Instrument Product Portfolio

4.8.5 Hao Yuan Instrument Recent Developments

4.9 Tongda

4.9.1 Tongda X-Ray Diffraction Instrument Company Information

4.9.2 Tongda X-Ray Diffraction Instrument Business Overview

4.9.3 Tongda X-Ray Diffraction Instrument Production, Value and Gross Margin

(2019-2024)

4.9.4 Tongda Product Portfolio

4.9.5 Tongda Recent Developments

4.10 Persee

- 4.10.1 Persee X-Ray Diffraction Instrument Company Information
- 4.10.2 Persee X-Ray Diffraction Instrument Business Overview
- 4.10.3 Persee X-Ray Diffraction Instrument Production, Value and Gross Margin (2019-2024)
- 4.10.4 Persee Product Portfolio
- 4.10.5 Persee Recent Developments

5 GLOBAL X-RAY DIFFRACTION INSTRUMENT PRODUCTION BY REGION

- 5.1 Global X-Ray Diffraction Instrument Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.2 Global X-Ray Diffraction Instrument Production by Region: 2019-2030
 - 5.2.1 Global X-Ray Diffraction Instrument Production by Region: 2019-2024
 - 5.2.2 Global X-Ray Diffraction Instrument Production Forecast by Region (2025-2030)
- 5.3 Global X-Ray Diffraction Instrument Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.4 Global X-Ray Diffraction Instrument Production Value by Region: 2019-2030
 - 5.4.1 Global X-Ray Diffraction Instrument Production Value by Region: 2019-2024
 - 5.4.2 Global X-Ray Diffraction Instrument Production Value Forecast by Region (2025-2030)
- 5.5 Global X-Ray Diffraction Instrument Market Price Analysis by Region (2019-2024)
- 5.6 Global X-Ray Diffraction Instrument Production and Value, YOY Growth
 - 5.6.1 North America X-Ray Diffraction Instrument Production Value Estimates and Forecasts (2019-2030)
 - 5.6.2 Europe X-Ray Diffraction Instrument Production Value Estimates and Forecasts (2019-2030)
 - 5.6.3 China X-Ray Diffraction Instrument Production Value Estimates and Forecasts (2019-2030)
 - 5.6.4 Japan X-Ray Diffraction Instrument Production Value Estimates and Forecasts (2019-2030)

6 GLOBAL X-RAY DIFFRACTION INSTRUMENT CONSUMPTION BY REGION

- 6.1 Global X-Ray Diffraction Instrument Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 6.2 Global X-Ray Diffraction Instrument Consumption by Region (2019-2030)
 - 6.2.1 Global X-Ray Diffraction Instrument Consumption by Region: 2019-2030
 - 6.2.2 Global X-Ray Diffraction Instrument Forecasted Consumption by Region (2025-2030)

6.3 North America

6.3.1 North America X-Ray Diffraction Instrument Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.3.2 North America X-Ray Diffraction Instrument Consumption by Country (2019-2030)

6.3.3 U.S.

6.3.4 Canada

6.4 Europe

6.4.1 Europe X-Ray Diffraction Instrument Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.4.2 Europe X-Ray Diffraction Instrument Consumption by Country (2019-2030)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific X-Ray Diffraction Instrument Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.5.2 Asia Pacific X-Ray Diffraction Instrument Consumption by Country (2019-2030)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa X-Ray Diffraction Instrument Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.6.2 Latin America, Middle East & Africa X-Ray Diffraction Instrument Consumption by Country (2019-2030)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

7 SEGMENT BY TYPE

- 7.1 Global X-Ray Diffraction Instrument Production by Type (2019-2030)
 - 7.1.1 Global X-Ray Diffraction Instrument Production by Type (2019-2030) & (Units)
 - 7.1.2 Global X-Ray Diffraction Instrument Production Market Share by Type (2019-2030)
- 7.2 Global X-Ray Diffraction Instrument Production Value by Type (2019-2030)
 - 7.2.1 Global X-Ray Diffraction Instrument Production Value by Type (2019-2030) & (US\$ Million)
 - 7.2.2 Global X-Ray Diffraction Instrument Production Value Market Share by Type (2019-2030)
- 7.3 Global X-Ray Diffraction Instrument Price by Type (2019-2030)

8 SEGMENT BY APPLICATION

- 8.1 Global X-Ray Diffraction Instrument Production by Application (2019-2030)
 - 8.1.1 Global X-Ray Diffraction Instrument Production by Application (2019-2030) & (Units)
 - 8.1.2 Global X-Ray Diffraction Instrument Production by Application (2019-2030) & (Units)
- 8.2 Global X-Ray Diffraction Instrument Production Value by Application (2019-2030)
 - 8.2.1 Global X-Ray Diffraction Instrument Production Value by Application (2019-2030) & (US\$ Million)
 - 8.2.2 Global X-Ray Diffraction Instrument Production Value Market Share by Application (2019-2030)
- 8.3 Global X-Ray Diffraction Instrument Price by Application (2019-2030)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

- 9.1 X-Ray Diffraction Instrument Value Chain Analysis
 - 9.1.1 X-Ray Diffraction Instrument Key Raw Materials
 - 9.1.2 Raw Materials Key Suppliers
 - 9.1.3 X-Ray Diffraction Instrument Production Mode & Process
- 9.2 X-Ray Diffraction Instrument Sales Channels Analysis
 - 9.2.1 Direct Comparison with Distribution Share
 - 9.2.2 X-Ray Diffraction Instrument Distributors
 - 9.2.3 X-Ray Diffraction Instrument Customers

10 GLOBAL X-RAY DIFFRACTION INSTRUMENT ANALYZING MARKET DYNAMICS

10.1 X-Ray Diffraction Instrument Industry Trends

10.2 X-Ray Diffraction Instrument Industry Drivers

10.3 X-Ray Diffraction Instrument Industry Opportunities and Challenges

10.4 X-Ray Diffraction Instrument Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER

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