

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

<https://marketpublishers.com/r/G2025175F92CEN.html>

Date: January 2024

Pages: 112

Price: US\$ 3,480.00 (Single User License)

ID: G2025175F92CEN

Abstracts

According to our (Global Info Research) latest study, the global Cryogenic Grinding market size was valued at USD 213 million in 2023 and is forecast to a readjusted size of USD 248.6 million by 2030 with a CAGR of 2.2% during review period.

Cryogenic grinding, also known as freezer milling, freezer grinding, and cryomilling, is the act of cooling or chilling a material and then reducing it into a small particle size. For example, thermoplastics are difficult to grind to small particle sizes at ambient temperatures because they soften, adhere in lumpy masses and clog screens. When chilled by dry ice, liquid carbon dioxide or liquid nitrogen, the thermoplastics can be finely ground to powders suitable for electrostatic spraying and other powder processes. Cryogenic grinding of plant and animal tissue is a technique used by microbiologists. Samples that require extraction of nucleic acids must be kept at -80°C or lower during the entire extraction process. For samples that are soft or flexible at room temperature, cryogenic grinding may be the only viable technique for processing samples.

Major global cryogenic grinding players include YENCHEN MACHINERY CO., LTD, MechAir, Jiangyin Baoli Machinery Manufacturing Co., LTD. Ltd, Sifter International and Hosokawa Micron Group. Globally, the top five players have a share of nearly 36 per cent by revenue. Asia-pacific is the world's largest market with a market share of about 33 percent, followed by Europe and North America with about 31 percent and 27 percent, respectively. In terms of product type, vertical cryogenic grinding is the largest market segment, accounting for 89% of the market share, in terms of application, food and pharmaceutical share is the largest, about 70%.

The Global Info Research report includes an overview of the development of the

Cryogenic Grinding industry chain, the market status of Food and Pharmaceutical (Vertical, Desktop), Spices (Vertical, Desktop), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Cryogenic Grinding.

Regionally, the report analyzes the Cryogenic Grinding 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 Cryogenic Grinding market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Cryogenic Grinding 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 Cryogenic Grinding 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., Vertical, Desktop).

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 Cryogenic Grinding market.

Regional Analysis: The report involves examining the Cryogenic Grinding 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 Cryogenic Grinding market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Cryogenic Grinding:

Company Analysis: Report covers individual Cryogenic Grinding 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 Cryogenic Grinding. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Food and Pharmaceutical, Spices).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Cryogenic Grinding 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

Cryogenic Grinding 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

Vertical

Desktop

Market segment by Application

Food and Pharmaceutical

Spices

Others

Major players covered

YENCHEN MACHINERY CO., LTD

MechAir

Jiangyin Baoli Machinery Manufacturing Co., Ltd

Sifter International

Hosokawa Micron Group

Air Products

Fritsch

Retsch GmbH

PALLMANN

Pulva Corporation

Powder Bank Japan

SPEX SamplePrep, LLC

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 Cryogenic Grinding product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cryogenic Grinding 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 Cryogenic Grinding 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 Cryogenic Grinding.

Chapter 14 and 15, to describe Cryogenic Grinding sales channel, distributors,

customers, research findings and conclusion.

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