

# Global Fluid Dynamic Bearing (FDB) 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 Fluid Dynamic Bearing (FDB) market size was valued at USD 147.1 million in 2023 and is forecast to a readjusted size of USD 84 million by 2030 with a CAGR of -7.7% during review period.

A Fluid Dynamic Bearing (FDB) is a type of bearing used in rotating machinery, such as computer fans and hard disk drives, to reduce friction and noise. It is a type of hydrodynamic bearing that uses a thin layer of fluid, typically oil or grease, to separate the rotating shaft from the stationary parts of the bearing.

In an FDB, the fluid is drawn into the bearing by the rotation of the shaft, creating a thin film between the shaft and the bearing. This film of fluid provides a low-friction surface for the shaft to rotate on, reducing wear and noise. The design of an FDB also helps to distribute the load evenly across the bearing, reducing stress and increasing the lifespan of the bearing.

The Fluid Dynamic Bearing (FDB) market is highly concentrated. Since Fluid Dynamic Bearing (FDB) is mainly used in fields such as HHD spindle motors and cooling fan motors, major market players Nidec and MinebeaMitsumi both produce Fluid Dynamic Bearing Unit and parts internally and assemble finished motors for sale to downstream customers. The income statistics of each company in this report are include internal sales revenue and external sales revenue.

Nidec is the largest manufacturers of Fluid Dynamic Bearing (FDB) in the world, has a share over 78%. Other players include MinebeaMitsumi, TPI, Jialian, etc.

Asia-Pacific is the largest market of Fluid Dynamic Bearing (FDB), holds a share over 75%, followed by North America and Europe.

In terms of application, the largest application is Hard Disc Drives (HDD), with a share over 75%, followed by Cooling Fans and Virtual Reality.

The Global Info Research report includes an overview of the development of the Fluid Dynamic Bearing (FDB) industry chain, the market status of Hard Disc Drives (HDD) (Less than 3.5mm, 3.5-5.0mm), Cooling Fans (Less than 3.5mm, 3.5-5.0mm), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fluid Dynamic Bearing (FDB).

Regionally, the report analyzes the Fluid Dynamic Bearing (FDB) 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 Fluid Dynamic Bearing (FDB) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Fluid Dynamic Bearing (FDB) 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 Fluid Dynamic Bearing (FDB) 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 (Million Units), revenue generated, and market share of different by Thickness (e.g., Less than 3.5mm, 3.5-5.0mm).

**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 Fluid Dynamic Bearing (FDB) market.

**Regional Analysis:** The report involves examining the Fluid Dynamic Bearing (FDB) 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 Fluid Dynamic Bearing (FDB) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fluid Dynamic Bearing (FDB):

**Company Analysis:** Report covers individual Fluid Dynamic Bearing (FDB) 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 Fluid Dynamic Bearing (FDB). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Hard Disc Drives (HDD), Cooling Fans).

**Technology Analysis:** Report covers specific technologies relevant to Fluid Dynamic Bearing (FDB). It assesses the current state, advancements, and potential future developments in Fluid Dynamic Bearing (FDB) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fluid Dynamic Bearing (FDB) 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

Fluid Dynamic Bearing (FDB) market is split by Thickness and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Thickness, and by Application in terms of volume and value.

## Market segment by Thickness

Less than 3.5mm

3.5-5.0mm

5.0-10.0mm

Greater than 10mm

#### Market segment by Application

Hard Disc Drives (HDD)

Cooling Fans

LIDAR Systems

Virtual Reality

Industrial

Others

#### Major players covered

Nidec

MinebeaMitsumi

TPI

Jialian

#### 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 Fluid Dynamic Bearing (FDB) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluid Dynamic Bearing (FDB), with price, sales, revenue and global market share of Fluid Dynamic Bearing (FDB) from 2019 to 2024.

Chapter 3, the Fluid Dynamic Bearing (FDB) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluid Dynamic Bearing (FDB) 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 Thickness and application, with sales market share and growth rate by thickness, 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 Fluid Dynamic Bearing (FDB) market forecast, by regions, thickness 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 Fluid

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Chapter 14 and 15, to describe Fluid Dynamic Bearing (FDB) sales channel, distributors, customers, research findings and conclusion.

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