

Global Fluid Dynamic Bearing (FDB) Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Fluid Dynamic Bearing (FDB) market size will reach 116.13 Million USD in 2025 and is projected to reach 70.93 Million USD by 2032, with a CAGR of -6.80% (2025-2032). Notably, the China Fluid Dynamic Bearing (FDB) market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Fluid Dynamic Bearing (FDB) is a type of bearing technology used in various mechanical systems, including computer fans, hard disk drives, and other rotating machinery. FDBs employ a thin layer of lubricating fluid, typically oil or grease, to facilitate smooth and quiet operation while reducing friction and wear. Unlike traditional ball bearings, which rely on physical contact between metal surfaces, FDBs use a thin film of lubricant to create a fluid wedge between the rotating and stationary components, allowing for virtually frictionless rotation. This design results in reduced noise, vibration, and heat generation, as well as increased reliability and longevity of the bearing. FDB technology is valued for its efficiency, durability, and quiet operation, making it a popular choice in applications where noise and reliability are critical considerations.

The major global manufacturers of Fluid Dynamic Bearing (FDB) include Nidec, MinebeaMitsumi, TPI, Jialian, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong

competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Fluid Dynamic Bearing (FDB). Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Fluid Dynamic Bearing (FDB) market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Fluid Dynamic Bearing (FDB) market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Fluid Dynamic Bearing (FDB) industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Fluid Dynamic Bearing (FDB) Include:

Nidec

MinebeaMitsumi

TPI

Jialian

Fluid Dynamic Bearing (FDB) Product Segment Include:

Less than 3.5mm

3.5-5.0mm

5.0-10.0mm

Greater than 10mm

Fluid Dynamic Bearing (FDB) Product Application Include:

Hard Disc Drives (HDD)

Cooling Fans

LIDAR Systems

Virtual Reality

Industrial

Others

Chapter Scope

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