

Global Gas Dynamic Bearings Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB4B92575A35EN.html>

Date: July 2026

Pages: 148

Price: US\$ 4,480.00 (Single User License)

ID: GB4B92575A35EN

Abstracts

The global Gas Dynamic Bearings market size is expected to reach \$ 389 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Gas Dynamic Bearings (GDBs), also known as gas foil bearings or aerodynamic bearings, are self-acting bearings that utilize ambient gas as a lubricating medium. They generate dynamic pressure effects through wedge-shaped gaps on the bearing surface to support rotating shafts. Unlike traditional rolling-element or oil-lubricated bearings, GDBs do not require complex external oil supply systems, offering advantages including high-speed operation, strong environmental adaptability, pollution-free performance, wide operating temperature range, and long service life.

The upstream segment includes suppliers of high-temperature alloys (Inconel X-750), stainless steel foils, precision machining equipment, and coating materials. The midstream segment encompasses foil structure manufacturing (bump foils, top foils), assembly, dynamic balancing, and quality testing performed by specialized bearing manufacturers. The downstream segment serves aerospace and defense contractors, energy equipment manufacturers, semiconductor equipment makers, and high-speed turbomachinery OEMs.

The global average selling price for gas dynamic bearings is approximately US\$35 per unit, with annual sales volume reaching approximately 7,700k units in 2025. The industry maintains gross margins between 30% and 45%.

The global gas dynamic bearings market is experiencing steady growth, driven by increasing demand for oil-free, high-speed turbomachinery in aerospace, energy, and semiconductor industries. As equipment power density requirements rise, conventional

bearings approach performance limits, while GDBs enable significantly higher rotational speeds and eliminate lubrication-related contamination and maintenance issues .

A notable trend reshaping the market is the ongoing advancement in foil structure design to improve load capacity and stability. Traditional bump foil bearings face challenges including low load capacity and subsynchronous vibration. Researchers have developed various innovative structures including stacked perforated foil bearings (SPFB), which utilize multiple perforated foils stacked to provide sufficient structural stiffness and multi-point contact friction, significantly enhancing bearing stability . Hybrid gas foil bearings (HGFB) incorporating external gas supply have also emerged, offering enhanced load capacity and controllable vibration characteristics .

Another significant development is the increasing application of gas foil bearings in extreme environments. Research has demonstrated that GDBs operate effectively in oxygen-free atmospheres (argon, hydrogen), with the friction coefficient between bump foil and top foil decreasing as oxygen content decreases. The load-carrying capacity and dynamic bearing stiffness in oxygen-free atmospheres are significantly higher than in conventional air environments . This makes GDBs particularly suitable for space applications such as closed Brayton cycle thermoelectric converters for nuclear power systems.

This report studies the global Gas Dynamic Bearings production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gas Dynamic Bearings and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gas Dynamic Bearings that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gas Dynamic Bearings total production and demand, 2021-2032, (K Units)
Global Gas Dynamic Bearings total production value, 2021-2032, (USD Million)
Global Gas Dynamic Bearings production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Gas Dynamic Bearings consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Gas Dynamic Bearings domestic production, consumption, key domestic manufacturers and share

Global Gas Dynamic Bearings production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Gas Dynamic Bearings production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Gas Dynamic Bearings production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Gas Dynamic Bearings market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific Inc. (Thermo Scientific), Eppendorf AG, PHC Holdings Corporation (Panasonic Healthcare), Binder GmbH, Memmert GmbH + Co. KG, Esco Lifesciences Group, NuAire, Inc., Caron Products & Services, Inc., Sheldon Manufacturing, Inc., LEEC Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Gas Dynamic Bearings market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gas Dynamic Bearings Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gas Dynamic Bearings Market, Segmentation by Type:

Herringbone Groove Bearings

Stepped Bearings

Tilting Pad Bearings

Foil Bearings

Global Gas Dynamic Bearings Market, Segmentation by Rotor Size:

Small (150 mm diameter)

Global Gas Dynamic Bearings Market, Segmentation by Load Capacity:

Low Load (300N radial / >1000N thrust)

Global Gas Dynamic Bearings Market, Segmentation by Application:

High-precision Measuring Instruments

Ultra-precision Machining

Other

Companies Profiled:

Thermo Fisher Scientific Inc. (Thermo Scientific)

Eppendorf AG

PHC Holdings Corporation (Panasonic Healthcare)

Binder GmbH

Memmert GmbH + Co. KG

Esco Lifesciences Group

NuAire, Inc.

Caron Products & Services, Inc.

Sheldon Manufacturing, Inc.

LEEC Limited

Labotect GmbH

CelVivo

Sanyo (now PHC)

BEING Scientific (Shanghai YIHENG)

Shanghai Boxun Medical Biological Instrument Corp.

Changzhou Noki Instrument Co., Ltd.

Key Questions Answered:

1. How big is the global Gas Dynamic Bearings market?

2. What is the demand of the global Gas Dynamic Bearings market?
3. What is the year over year growth of the global Gas Dynamic Bearings market?
4. What is the production and production value of the global Gas Dynamic Bearings market?
5. Who are the key producers in the global Gas Dynamic Bearings market?
6. What are the growth factors driving the market demand?

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