

Global Gas Dynamic Bearings Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Gas Dynamic Bearings market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Gas dynamic bearings is a type of bearing that uses gas (typically air or an inert gas) as a lubricant to create a hydrodynamic pressure film between the shaft and the bearing surfaces. As the shaft rotates, the gas generates a pressure effect, forming a stable gas film that supports the shaft's load and reduces friction. Due to the low viscosity of gases, these bearings are suitable for high-speed, low-load environments and are commonly used in precision instruments, turbines, and gyroscopes, offering low friction, no contamination, and long service life.

This report is a detailed and comprehensive analysis for global Gas Dynamic Bearings market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gas Dynamic Bearings market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Dynamic Bearings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Dynamic Bearings market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Dynamic Bearings market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Gas Dynamic Bearings
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Gas Dynamic Bearings market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PRS Precision Bearings, Shanghai Yuying Industry, Luoyang Hongyuan bearings, New Way Air Bearings, Eitzenberger, Motion Trust, LNK, IBS, Nakanishi, Loadpoint, etc.

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

Market Segmentation

Gas Dynamic Bearings market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Herringbone Groove Bearings

Stepped Bearings

Tilting Pad Bearings

Foil Bearings

Market segment by Application

High-precision Measuring Instruments

Ultra-precision Machining

Other

Major players covered

PRS Precision Bearings

Shanghai Yuying Industry

Luoyang Hongyuan bearings

New Way Air Bearings

Eitzenberger

Motion Trust

LNK

IBS

Nakanishi

Loadpoint

GSI Group

OAV Air Bearings

OILES

NSK

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 Gas Dynamic Bearings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Dynamic Bearings, with price, sales quantity, revenue, and global market share of Gas Dynamic Bearings from 2020 to 2025.

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

Chapter 4, the Gas Dynamic Bearings breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Gas Dynamic Bearings market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Gas Dynamic Bearings.

Chapter 14 and 15, to describe Gas Dynamic Bearings sales channel, distributors, customers, research findings and conclusion.

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