

# Global Air Foil Bearing Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Air Foil Bearing market size is expected to reach \$ 641 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

An air foil bearing is a type of bearing that uses a thin layer of air to support a rotating shaft. It is commonly used in high-speed rotating machinery, such as gas turbines and turbochargers. An air foil bearing consists of a rotating shaft and a stationary housing. The shaft is fitted with a series of air foil-shaped pads, while the bearing housing has a corresponding set of grooves. When the shaft rotates, a thin film of air is generated between the pads and the grooves, creating an air cushion that supports the shaft. Compared to traditional mechanical bearings, air foil bearings offer several advantages. They have no physical contact between the shaft and the bearing housing, thus eliminating friction and reducing wear. This reduces energy consumption, minimizes maintenance requirements, and extends operating life.

In 2024, global Air Foil Bearing production reached approximately 1,909 K units, with an average global market price of around US\$ 230 per unit.

The air foil bearing industry is currently experiencing significant growth and technological advancements. Driven by the increasing demand for energy - efficient systems, as well as the growth of the aerospace, oil and gas, and automotive sectors, air foil bearings are becoming increasingly important. In aerospace, for example, the rapid advancement of aerospace technologies and increased government investments in aerospace and defense are leading to a greater adoption of advanced air foil bearings. These bearings help enhance the efficiency and reliability of aircraft engines while reducing weight and maintenance costs. In the energy industry, they are being used in high - speed turbines to improve energy conversion efficiency. Technological trends in the air foil bearing industry include the development of advanced materials to enhance performance and durability. This includes the use of coatings that can withstand high temperatures and reduce friction and wear. There is also ongoing

research to improve the load - bearing capacity and damping characteristics of air foil bearings. Additionally, the integration of air foil bearings with other technologies, such as magnetic bearings, to create hybrid bearing systems is an emerging trend, offering new possibilities for improving performance and expanding application scenarios. However, the industry also faces challenges, such as the high initial cost of deployment and the technical difficulties in integrating these bearings into existing machinery. The complexity of manufacturing and the need for specialized maintenance skills also pose obstacles to wider adoption. Despite these challenges, the future of the air foil bearing industry looks promising, with continued growth expected in the coming years, especially in emerging sectors such as robotics and wind energy.

This report studies the global Air Foil Bearing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air Foil Bearing 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 Air Foil Bearing that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Air Foil Bearing total production and demand, 2021-2032, (K Units)

Global Air Foil Bearing total production value, 2021-2032, (USD Million)

Global Air Foil Bearing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Air Foil Bearing consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Air Foil Bearing domestic production, consumption, key domestic manufacturers and share

Global Air Foil Bearing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Air Foil Bearing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Air Foil Bearing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Air Foil Bearing 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 R&D Dynamics, Robert Bosch GmbH, Omega Dot Ltd, OAV AIR BEARINGS, Xdot Bearing Technologies, Mohawk Innovative Technology, Hebel Kingston New Energy Technology, Qrbearing, Zeus, 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 Air Foil Bearing 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 Air Foil Bearing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air Foil Bearing Market, Segmentation by Type:

Radial Air Foil Bearing

Thrust Air Foil Bearing

Global Air Foil Bearing Market, Segmentation by Operating Speed:

Low-speed Air Foil Bearings (50,000 rpm)

## Global Air Foil Bearing Market, Segmentation by Load Capacity:

Light-Load Air Foil Bearing

Medium-Load Air Foil Bearing

Heavy-Load Air Foil Bearing

## Global Air Foil Bearing Market, Segmentation by Application:

Automotive

Aerospace

Industrial Machinery

Others

## **Companies Profiled:**

R&D Dynamics

Robert Bosch GmbH

Omega Dot Ltd

OAV AIR BEARINGS

Xdot Bearing Technologies

Mohawk Innovative Technology

Hebel Kingston New Energy Technology

Qrbearing

Zeus

**Key Questions Answered:**

1. How big is the global Air Foil Bearing market?
2. What is the demand of the global Air Foil Bearing market?
3. What is the year over year growth of the global Air Foil Bearing market?
4. What is the production and production value of the global Air Foil Bearing market?
5. Who are the key producers in the global Air Foil Bearing market?
6. What are the growth factors driving the market demand?

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