

Global Air Foil Bearing Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G20DCE6D33FBEN.html>

Date: December 2025

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: G20DCE6D33FBEN

Abstracts

According to our (Global Info Research) latest study, the global Air Foil Bearing market size was valued at US\$ 452 million in 2025 and is forecast to a readjusted size of US\$ 641 million by 2032 with a CAGR of 5.2% during review period.

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 is a detailed and comprehensive analysis for global Air Foil Bearing 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 Air Foil Bearing market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Foil Bearing market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Foil Bearing market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Foil Bearing market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Air Foil Bearing

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 Air Foil Bearing 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 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.

Market Segmentation

Air Foil Bearing market is split by Type and by Application. For the period 2021-2032, 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

Radial Air Foil Bearing

Thrust Air Foil Bearing

Market segment by Operating Speed

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

Market segment by Load Capacity

Light-Load Air Foil Bearing

Medium-Load Air Foil Bearing

Heavy-Load Air Foil Bearing

Market segment by Application

Automotive

Aerospace

Industrial Machinery

Others

Major players covered

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

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 Air Foil Bearing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Air Foil Bearing, with price, sales quantity, revenue, and global market share of Air Foil Bearing from 2021 to 2026.

Chapter 3, the Air Foil Bearing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Air Foil Bearing breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Air Foil Bearing market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Air Foil Bearing.

Chapter 14 and 15, to describe Air Foil Bearing sales channel, distributors, customers, research findings and conclusion.

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