

Air Foil Bearing Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Air Foil Bearing Market Summary

Introduction

Air foil bearings are innovative, oil-free systems that use a thin air film to support rotating machinery, offering low friction and high-speed capabilities. The market is defined by its lightweight, maintenance-free design and resilience in extreme conditions, making it ideal for confidential machinery, aerospace, and energy sectors. Key drivers include the push for sustainable technologies and high-performance equipment, with trends focusing on compact designs and renewable energy integration.

Market Size and Growth Forecast

The global air foil bearing market was valued at USD 330 million to USD 460 million in 2024, with an estimated CAGR of 7.0% to 9.0% from 2025 to 2030, fueled by aerospace innovation and energy efficiency needs.

Regional Analysis

North America grows at 6.5-8.5%, with the USA leading due to aerospace advancements; trends focus on high-speed applications.

Europe achieves a growth rate of 7.0-9.0%, driven by Germany and France; trends emphasize green technology adoption.

Asia Pacific sees a growth rate of 7.5-9.5%, led by China and South Korea; trends highlight energy sector expansion.

The Rest of the World records a growth rate of 6.0-8.0%, with India and Australia emerging; trends focus on industrial upgrades.

Application Analysis

Confidential Machinery expands at 7.0-9.0%; it supports sensitive equipment, with trends favoring precision and reliability.

Aerospace grows at 7.5-9.5%; it powers turbines and engines, with trends emphasizing lightweight materials.

Energy rises at 6.5-8.5%; it enhances renewable systems, with trends focusing on efficiency and durability.

Key Market Players

R&D Dynamics, based in Bloomfield, USA, specializes in high-speed machinery, offering air foil bearings for aerospace and energy with a focus on innovation.

Robert Bosch, headquartered in Gerlingen, Germany, provides advanced bearing solutions, crafting air foil bearings for industrial and automotive applications.

Mohawk Innovative Technology, from Albany, USA, excels in oil-free bearings, producing designs for confidential and aerospace use with cutting-edge technology.

OAV Air Bearings, located in Princeton, USA, focuses on frictionless systems, offering air foil bearings for high-speed, precision machinery.

Omega Dot, based in Seoul, South Korea, specializes in turbo machinery, supplying air foil bearings for energy and aerospace sectors.

KOREA TURBO, headquartered in Busan, South Korea, provides turbo solutions, crafting air foil bearings for industrial reliability.

Xdotbt, from Austin, USA, focuses on bearing technologies, offering air foil designs for confidential applications with a high-tech approach.

Mechanical Solutions, based in Whippany, USA, delivers engineering solutions, producing air foil bearings for energy and aerospace durability.

Lone Star Blower, located in Houston, USA, specializes in blower systems, offering air foil bearings for industrial efficiency.

Hebel Kingston New Energy Technology, from Hebei, China, focuses on renewable energy, crafting air foil bearings for sustainable applications.

Porter's Five Forces Analysis

The threat of new entrants is moderate; high R&D costs deter entry, but market potential attracts innovators.

The threat of substitutes is moderate; traditional bearings compete but lack efficiency in high-speed settings.

Buyer power is moderate; specialized applications limit options, though buyers seek cost efficiency.

Supplier power is moderate; niche materials create some dependency on suppliers.

Competitive rivalry is high; firms push for compact, efficient bearing designs.

Market Opportunities and Challenges

Opportunities

Aerospace modernization increases demand for lightweight bearings.

Renewable energy growth drives adoption in turbines and generators.

High-speed machinery trends expand application possibilities.

Challenges

Elevated production costs restrict widespread use.

Technical expertise requirements limit scalability.

Competition from conventional bearings slows market shift.

Growth Trend Analysis

Sulzer's HST 10, launched in 2024, cuts costs and boosts reliability in energy applications, while Schaeffler's showcase at Hydrogen Americas 2024 highlights air foil bearing advancements. These trends support a projected CAGR of 7.0-9.0% through 2030, driven by energy and aerospace demands.

Contents

Table of Content

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Air Foil Bearing Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Air Foil Bearing by Region
- 8.2 Import of Air Foil Bearing by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST AIR FOIL BEARING MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Air Foil Bearing Market Size
- 9.2 Air Foil Bearing Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST AIR FOIL BEARING MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Air Foil Bearing Market Size
- 10.2 Air Foil Bearing Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST AIR FOIL BEARING MARKET IN ASIA

& PACIFIC (2020-2030)

- 11.1 Air Foil Bearing Market Size
- 11.2 Air Foil Bearing Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST AIR FOIL BEARING MARKET IN EUROPE (2020-2030)

- 12.1 Air Foil Bearing Market Size
- 12.2 Air Foil Bearing Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST AIR FOIL BEARING MARKET IN MEA (2020-2030)

- 13.1 Air Foil Bearing Market Size
- 13.2 Air Foil Bearing Demand by End Use
- 13.3 Competition by Players/Suppliers

13.4 Type Segmentation and Price

13.5 Key Countries Analysis

13.5.1 Egypt

13.5.2 Israel

13.5.3 South Africa

13.5.4 Gulf Cooperation Council Countries

13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL AIR FOIL BEARING MARKET (2020-2025)

14.1 Air Foil Bearing Market Size

14.2 Air Foil Bearing Demand by End Use

14.3 Competition by Players/Suppliers

14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL AIR FOIL BEARING MARKET FORECAST (2025-2030)

15.1 Air Foil Bearing Market Size Forecast

15.2 Air Foil Bearing Demand Forecast

15.3 Competition by Players/Suppliers

15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

16.1 R&D Dynamics

16.1.1 Company Profile

16.1.2 Main Business and Air Foil Bearing Information

16.1.3 SWOT Analysis of R&D Dynamics

16.1.4 R&D Dynamics Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)

16.2 Robert Bosch

16.2.1 Company Profile

16.2.2 Main Business and Air Foil Bearing Information

16.2.3 SWOT Analysis of Robert Bosch

16.2.4 Robert Bosch Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)

16.3 Mohawk Innovative Technology

16.3.1 Company Profile

16.3.2 Main Business and Air Foil Bearing Information

- 16.3.3 SWOT Analysis of Mohawk Innovative Technology
- 16.3.4 Mohawk Innovative Technology Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.4 OAV AIR BEARINGS
 - 16.4.1 Company Profile
 - 16.4.2 Main Business and Air Foil Bearing Information
 - 16.4.3 SWOT Analysis of OAV AIR BEARINGS
 - 16.4.4 OAV AIR BEARINGS Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.5 Omega Dot
 - 16.5.1 Company Profile
 - 16.5.2 Main Business and Air Foil Bearing Information
 - 16.5.3 SWOT Analysis of Omega Dot
 - 16.5.4 Omega Dot Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.6 KOREA TURBO
 - 16.6.1 Company Profile
 - 16.6.2 Main Business and Air Foil Bearing Information
 - 16.6.3 SWOT Analysis of KOREA TURBO
 - 16.6.4 KOREA TURBO Air Foil Bearing Sales, Revenue, Price and Gross Margin (2020-2025)
- Please ask for sample pages for full companies list
- Tables and Figures
 - Table Abbreviation and Acronyms List
 - Table Research Scope of Air Foil Bearing Report
 - Table Data Sources of Air Foil Bearing Report
 - Table Major Assumptions of Air Foil Bearing Report
 - Figure Market Size Estimated Method
 - Figure Major Forecasting Factors
 - Figure Air Foil Bearing Picture
 - Table Air Foil Bearing Classification
 - Table Air Foil Bearing Applications List
 - Table Drivers of Air Foil Bearing Market
 - Table Restraints of Air Foil Bearing Market
 - Table Opportunities of Air Foil Bearing Market
 - Table Threats of Air Foil Bearing Market
 - Table Covid-19 Impact For Air Foil Bearing Market
 - Table Raw Materials Suppliers List
 - Table Different Production Methods of Air Foil Bearing

Table Cost Structure Analysis of Air Foil Bearing
Table Key End Users List
Table Latest News of Air Foil Bearing Market
Table Merger and Acquisition List
Table Planned/Future Project of Air Foil Bearing Market
Table Policy of Air Foil Bearing Market
Table 2020-2030 Regional Export of Air Foil Bearing
Table 2020-2030 Regional Import of Air Foil Bearing
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Air Foil Bearing Market Size and Market Volume List
Figure 2020-2030 North America Air Foil Bearing Market Size and CAGR
Figure 2020-2030 North America Air Foil Bearing Market Volume and CAGR
Table 2020-2030 North America Air Foil Bearing Demand List by Application
Table 2020-2025 North America Air Foil Bearing Key Players Sales List
Table 2020-2025 North America Air Foil Bearing Key Players Market Share List
Table 2020-2030 North America Air Foil Bearing Demand List by Type
Table 2020-2025 North America Air Foil Bearing Price List by Type
Table 2020-2030 United States Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 United States Air Foil Bearing Import & Export List
Table 2020-2030 Canada Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Canada Air Foil Bearing Import & Export List
Table 2020-2030 Mexico Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Mexico Air Foil Bearing Import & Export List
Table 2020-2030 South America Air Foil Bearing Market Size and Market Volume List
Figure 2020-2030 South America Air Foil Bearing Market Size and CAGR
Figure 2020-2030 South America Air Foil Bearing Market Volume and CAGR
Table 2020-2030 South America Air Foil Bearing Demand List by Application
Table 2020-2025 South America Air Foil Bearing Key Players Sales List
Table 2020-2025 South America Air Foil Bearing Key Players Market Share List
Table 2020-2030 South America Air Foil Bearing Demand List by Type
Table 2020-2025 South America Air Foil Bearing Price List by Type
Table 2020-2030 Brazil Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Brazil Air Foil Bearing Import & Export List
Table 2020-2030 Argentina Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Argentina Air Foil Bearing Import & Export List
Table 2020-2030 Chile Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Chile Air Foil Bearing Import & Export List
Table 2020-2030 Peru Air Foil Bearing Market Size and Market Volume List

Table 2020-2030 Peru Air Foil Bearing Import & Export List
Table 2020-2030 Asia & Pacific Air Foil Bearing Market Size and Market Volume List
Figure 2020-2030 Asia & Pacific Air Foil Bearing Market Size and CAGR
Figure 2020-2030 Asia & Pacific Air Foil Bearing Market Volume and CAGR
Table 2020-2030 Asia & Pacific Air Foil Bearing Demand List by Application
Table 2020-2025 Asia & Pacific Air Foil Bearing Key Players Sales List
Table 2020-2025 Asia & Pacific Air Foil Bearing Key Players Market Share List
Table 2020-2030 Asia & Pacific Air Foil Bearing Demand List by Type
Table 2020-2025 Asia & Pacific Air Foil Bearing Price List by Type
Table 2020-2030 China Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 China Air Foil Bearing Import & Export List
Table 2020-2030 India Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 India Air Foil Bearing Import & Export List
Table 2020-2030 Japan Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Japan Air Foil Bearing Import & Export List
Table 2020-2030 South Korea Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 South Korea Air Foil Bearing Import & Export List
Table 2020-2030 Southeast Asia Air Foil Bearing Market Size List
Table 2020-2030 Southeast Asia Air Foil Bearing Market Volume List
Table 2020-2030 Southeast Asia Air Foil Bearing Import List
Table 2020-2030 Southeast Asia Air Foil Bearing Export List
Table 2020-2030 Australia Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Australia Air Foil Bearing Import & Export List
Table 2020-2030 Europe Air Foil Bearing Market Size and Market Volume List
Figure 2020-2030 Europe Air Foil Bearing Market Size and CAGR
Figure 2020-2030 Europe Air Foil Bearing Market Volume and CAGR
Table 2020-2030 Europe Air Foil Bearing Demand List by Application
Table 2020-2025 Europe Air Foil Bearing Key Players Sales List
Table 2020-2025 Europe Air Foil Bearing Key Players Market Share List
Table 2020-2030 Europe Air Foil Bearing Demand List by Type
Table 2020-2025 Europe Air Foil Bearing Price List by Type
Table 2020-2030 Germany Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Germany Air Foil Bearing Import & Export List
Table 2020-2030 France Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 France Air Foil Bearing Import & Export List
Table 2020-2030 United Kingdom Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 United Kingdom Air Foil Bearing Import & Export List
Table 2020-2030 Italy Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Italy Air Foil Bearing Import & Export List

Table 2020-2030 Spain Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Spain Air Foil Bearing Import & Export List
Table 2020-2030 Belgium Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Belgium Air Foil Bearing Import & Export List
Table 2020-2030 Netherlands Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Netherlands Air Foil Bearing Import & Export List
Table 2020-2030 Austria Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Austria Air Foil Bearing Import & Export List
Table 2020-2030 Poland Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Poland Air Foil Bearing Import & Export List
Table 2020-2030 Russia Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Russia Air Foil Bearing Import & Export List
Table 2020-2030 MEA Air Foil Bearing Market Size and Market Volume List
Figure 2020-2030 MEA Air Foil Bearing Market Size and CAGR
Figure 2020-2030 MEA Air Foil Bearing Market Volume and CAGR
Table 2020-2030 MEA Air Foil Bearing Demand List by Application
Table 2020-2025 MEA Air Foil Bearing Key Players Sales List
Table 2020-2025 MEA Air Foil Bearing Key Players Market Share List
Table 2020-2030 MEA Air Foil Bearing Demand List by Type
Table 2020-2025 MEA Air Foil Bearing Price List by Type
Table 2020-2030 Egypt Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Egypt Air Foil Bearing Import & Export List
Table 2020-2030 Israel Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Israel Air Foil Bearing Import & Export List
Table 2020-2030 South Africa Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 South Africa Air Foil Bearing Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Air Foil Bearing Import & Export List
Table 2020-2030 Turkey Air Foil Bearing Market Size and Market Volume List
Table 2020-2030 Turkey Air Foil Bearing Import & Export List
Table 2020-2025 Global Air Foil Bearing Market Size List by Region
Table 2020-2025 Global Air Foil Bearing Market Size Share List by Region
Table 2020-2025 Global Air Foil Bearing Market Volume List by Region
Table 2020-2025 Global Air Foil Bearing Market Volume Share List by Region
Table 2020-2025 Global Air Foil Bearing Demand List by Application
Table 2020-2025 Global Air Foil Bearing Demand Market Share List by Application
Table 2020-2025 Global Air Foil Bearing Key Vendors Sales List

Table 2020-2025 Global Air Foil Bearing Key Vendors Sales Share List	
Figure 2020-2025 Global Air Foil Bearing Market Volume and Growth Rate	
Table 2020-2025 Global Air Foil Bearing Key Vendors Revenue List	
Figure 2020-2025 Global Air Foil Bearing Market Size and Growth Rate	
Table 2020-2025 Global Air Foil Bearing Key Vendors Revenue Share List	
Table 2020-2025 Global Air Foil Bearing Demand List by Type	
Table 2020-2025 Global Air Foil Bearing Demand Market Share List by Type	
Table 2020-2025 Regional Air Foil Bearing Price List	
Table 2025-2030 Global Air Foil Bearing Market Size List by Region	
Table 2025-2030 Global Air Foil Bearing Market Size Share List by Region	
Table 2025-2030 Global Air Foil Bearing Market Volume List by Region	
Table 2025-2030 Global Air Foil Bearing Market Volume Share List by Region	
Table 2025-2030 Global Air Foil Bearing Demand List by Application	
Table 2025-2030 Global Air Foil Bearing Demand Market Share List by Application	
Table 2025-2030 Global Air Foil Bearing Key Vendors Sales List	
Table 2025-2030 Global Air Foil Bearing Key Vendors Sales Share List	
Figure 2025-2030 Global Air Foil Bearing Market Volume and Growth Rate	
Table 2025-2030 Global Air Foil Bearing Key Vendors Revenue List	
Figure 2025-2030 Global Air Foil Bearing Market Size and Growth Rate	
Table 2025-2030 Global Air Foil Bearing Key Vendors Revenue Share List	
Table 2025-2030 Global Air Foil Bearing Demand List by Type	
Table 2025-2030 Global Air Foil Bearing Demand Market Share List by Type	
Table 2025-2030 Air Foil Bearing Regional Price List	
Table R&D Dyn??amics Information	
Table SWOT Analysis of R&D Dyn??amics	
Table 2020-2025 R&D Dyn??amics Air Foil Bearing Sale Volume Price Cost Revenue	
Figure 2020-2025 R&D Dyn??amics Air Foil Bearing Sale Volume and Growth Rate	
Figure 2020-2025 R&D Dyn??amics Air Foil Bearing Market Share	
Table Robert Bosch Information	
Table SWOT Analysis of Robert Bosch	
Table 2020-2025 Robert Bosch Air Foil Bearing Sale Volume Price Cost Revenue	
Figure 2020-2025 Robert Bosch Air Foil Bearing Sale Volume and Growth Rate	
Figure 2020-2025 Robert Bosch Air Foil Bearing Market Share	
Table Mohawk Innovative Technology Information	
Table SWOT Analysis of Mohawk Innovative Technology	
Table 2020-2025 Mohawk Innovative Technology Air Foil Bearing Sale Volume Price Cost Revenue	
Figure 2020-2025 Mohawk Innovative Technology Air Foil Bearing Sale Volume and Growth Rate	

Figure 2020-2025 Mohawk Innovative Technology Air Foil Bearing Market Share

Table OAV AIR BEARINGS Information

Table SWOT Analysis of OAV AIR BEARINGS

Table 2020-2025 OAV AIR BEARINGS Air Foil Bearing Sale Volume Price Cost Revenue

Figure 2020-2025 OAV AIR BEARINGS Air Foil Bearing Sale Volume and Growth Rate

Figure 2020-2025 OAV AIR BEARINGS Air Foil Bearing Market Share

Table Omega Dot Information

Table SWOT Analysis of Omega Dot

Table 2020-2025 Omega Dot Air Foil Bearing Sale Volume Price Cost Revenue

Figure 2020-2025 Omega Dot Air Foil Bearing Sale Volume and Growth Rate

Figure 2020-2025 Omega Dot Air Foil Bearing Market Share

Table KOREA TURBO Information

Table SWOT Analysis of KOREA TURBO

Table 2020-2025 KOREA TURBO Air Foil Bearing Sale Volume Price Cost Revenue

Figure 2020-2025 KOREA TURBO Air Foil Bearing Sale Volume and Growth Rate

Figure 2020-2025 KOREA TURBO Air Foil Bearing Market Share

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