

# **Global Air Bearings Market Size Study, by Type (Aerostatic Bearings, Aerodynamic Bearings), by Application (Precision Machinery Tools, High-speed Machines, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Air Bearings Market is valued at approximately USD 6.76 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.10% over the forecast period 2024-2032. Air bearings, also known as aerostatic or aerodynamic bearings, employ a thin film of pressurized gas to create a low-friction load-bearing interface between surfaces. This unique design prevents surface contact, thereby eliminating traditional bearing issues such as friction, wear, particulate generation, and lubricant management. These air bearings offer advantages in precision positioning as well as in high-speed applications across various end use industries.

The Global Air Bearings Market is driven by rising demand for precision machinery tools and high-speed machines. These bearings are extensively utilized in various applications, such as measuring and processing machines, spindles, and small-scale turbomachinery, due to their ability to reduce friction and wear. For instance, the increased participation in high-precision manufacturing sectors is expected to drive the adoption of air bearings, enhancing their market penetration. The market is poised for growth, propelled by advancements in technology and increasing applications in various industries. However, high cost associated with air bearing systems and the complexity of their design and manufacturing processes is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Air Bearings Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America was the dominating among regional market in terms of revenue owing to

factors such as growing number of manufacturing facilities equipped with robust industrial machinery across the region. Air bearings, known for their precision and smooth operation, are increasingly used in various manufacturing processes where high precision and minimal friction are crucial. In North America, particularly in sectors such as semiconductor manufacturing, aerospace, automotive, and medical devices, there is a significant demand for advanced industrial machinery equipped with air bearings. These bearings help in achieving higher accuracy, smoother operation, and reduced wear and tear compared to traditional mechanical bearings. Furthermore, the market in Asia Pacific is anticipated to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Bladon Jets

Bently

TOTO

Renishaw

PI Nelson Air Corp

Loadpoint Bearings Ltd

Leuven Air Bearings

MAGER S.r.l

Newport

DOVER

Newport Corporation

GAT

Nelson Air Corp

Air Bearings Ltd

OAV Air Bearings

The detailed segments and sub-segment of the market are explained below:

By Type

Aerostatic Bearings

Aerodynamic Bearings

By Application

Precision Machinery Tools

High-speed Machines

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

#### Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

#### Latin America

Brazil

Mexico

#### Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

*Global Air Bearings Market Size Study, by Type (Aerostatic Bearings, Aerodynamic Bearings), by Application (Pr...*

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

#### Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

## Contents

### **CHAPTER 1. GLOBAL AIR BEARINGS MARKET EXECUTIVE SUMMARY**

- 1.1. Global Air Bearings Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Type
  - 1.3.2. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL AIR BEARINGS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL AIR BEARINGS MARKET DYNAMICS**

- 3.1. Market Drivers

- 3.1.1. Rising Demand for Precision Machinery Tools
- 3.1.2. Growth in High-speed Machines
- 3.1.3. Advantages of Low Friction and Reduced Wear
- 3.2. Market Challenges
  - 3.2.1. High Cost of Air Bearing Systems
  - 3.2.2. Complexity in Design and Manufacturing
- 3.3. Market Opportunities
  - 3.3.1. Technological Advancements
  - 3.3.2. Expansion in Emerging Markets
  - 3.3.3. Increasing Applications in Various Industries

## **CHAPTER 4. GLOBAL AIR BEARINGS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL AIR BEARINGS MARKET SIZE & FORECASTS BY TYPE 2022-2032**

- 5.1. Segment Dashboard
- 5.2. Global Air Bearings Market: Type Revenue Trend Analysis, 2022 & 2032 (USD)

Billion)

5.2.1. Aerostatic Bearings

5.2.2. Aerodynamic Bearings

## **CHAPTER 6. GLOBAL AIR BEARINGS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

6.1. Segment Dashboard

6.2. Global Air Bearings Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Precision Machinery Tools

6.2.2. High-speed Machines

6.2.3. Others

## **CHAPTER 7. GLOBAL AIR BEARINGS MARKET SIZE & FORECASTS BY REGION 2022-2032**

7.1. North America Air Bearings Market

7.1.1. U.S. Air Bearings Market

7.1.1.1. Type breakdown size & forecasts, 2022-2032

7.1.1.2. Application breakdown size & forecasts, 2022-2032

7.1.2. Canada Air Bearings Market

7.1.2.1. Type breakdown size & forecasts, 2022-2032

7.1.2.2. Application breakdown size & forecasts, 2022-2032

7.2. Europe Air Bearings Market

7.2.1. U.K. Air Bearings Market

7.2.1.1. Type breakdown size & forecasts, 2022-2032

7.2.1.2. Application breakdown size & forecasts, 2022-2032

7.2.2. Germany Air Bearings Market

7.2.2.1. Type breakdown size & forecasts, 2022-2032

7.2.2.2. Application breakdown size & forecasts, 2022-2032

7.2.3. France Air Bearings Market

7.2.3.1. Type breakdown size & forecasts, 2022-2032

7.2.3.2. Application breakdown size & forecasts, 2022-2032

7.2.4. Spain Air Bearings Market

7.2.4.1. Type breakdown size & forecasts, 2022-2032

7.2.4.2. Application breakdown size & forecasts, 2022-2032

7.2.5. Italy Air Bearings Market

7.2.5.1. Type breakdown size & forecasts, 2022-2032



- 7.2.5.2. Application breakdown size & forecasts, 2022-2032
- 7.2.6. Rest of Europe Air Bearings Market
  - 7.2.6.1. Type breakdown size & forecasts, 2022-2032
  - 7.2.6.2. Application breakdown size & forecasts, 2022-2032
- 7.3. Asia-Pacific Air Bearings Market
  - 7.3.1. China Air Bearings Market
    - 7.3.1.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.1.2. Application breakdown size & forecasts, 2022-2032
  - 7.3.2. India Air Bearings Market
    - 7.3.2.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.2.2. Application breakdown size & forecasts, 2022-2032
  - 7.3.3. Japan Air Bearings Market
    - 7.3.3.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.3.2. Application breakdown size & forecasts, 2022-2032
  - 7.3.4. Australia Air Bearings Market
    - 7.3.4.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.4.2. Application breakdown size & forecasts, 2022-2032
  - 7.3.5. South Korea Air Bearings Market
    - 7.3.5.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.5.2. Application breakdown size & forecasts, 2022-2032
  - 7.3.6. Rest of Asia Pacific Air Bearings Market
    - 7.3.6.1. Type breakdown size & forecasts, 2022-2032
    - 7.3.6.2. Application breakdown size & forecasts, 2022-2032
- 7.4. Latin America Air Bearings Market
  - 7.4.1. Brazil Air Bearings Market
    - 7.4.1.1. Type breakdown size & forecasts, 2022-2032
    - 7.4.1.2. Application breakdown size & forecasts, 2022-2032
  - 7.4.2. Mexico Air Bearings Market
    - 7.4.2.1. Type breakdown size & forecasts, 2022-2032
    - 7.4.2.2. Application breakdown size & forecasts, 2022-2032
  - 7.4.3. Rest of Latin America Air Bearings Market
    - 7.4.3.1. Type breakdown size & forecasts, 2022-2032
    - 7.4.3.2. Application breakdown size & forecasts, 2022-2032
- 7.5. Middle East & Africa Air Bearings Market
  - 7.5.1. Saudi Arabia Air Bearings Market
    - 7.5.1.1. Type breakdown size & forecasts, 2022-2032
    - 7.5.1.2. Application breakdown size & forecasts, 2022-2032
  - 7.5.2. South Africa Air Bearings Market
    - 7.5.2.1. Type breakdown size & forecasts, 2022-2032

- 7.5.2.2. Application breakdown size & forecasts, 2022-2032
- 7.5.3. Rest of Middle East & Africa Air Bearings Market
  - 7.5.3.1. Type breakdown size & forecasts, 2022-2032
  - 7.5.3.2. Application breakdown size & forecasts, 2022-2032

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis
  - 8.1.1. Company
  - 8.1.2. Company
  - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Bladon Jets
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies
  - 8.3.2. Bently
  - 8.3.3. TOTO
  - 8.3.4. Renishaw
  - 8.3.5. PI Nelson Air Corp
  - 8.3.6. Loadpoint Bearings Ltd
  - 8.3.7. Leuven Air Bearings
  - 8.3.8. MAGER S.r.l
  - 8.3.9. Newport
  - 8.3.10. DOVER
  - 8.3.11. Newport Corporation
  - 8.3.12. GAT
  - 8.3.13. Nelson Air Corp
  - 8.3.14. Air Bearings Ltd
  - 8.3.15. OAV Air Bearings

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis

- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Air Bearings Market, Report Scope

TABLE 2. Global Air Bearings Market Estimates & Forecasts by Region 2022-2032  
(USD Billion)

TABLE 3. Global Air Bearings Market Estimates & Forecasts by Type 2022-2032 (USD Billion)

TABLE 4. Global Air Bearings Market Estimates & Forecasts by Application 2022-2032  
(USD Billion)

TABLE 5. Global Air Bearings Market by Segment, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 6. Global Air Bearings Market by Region, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 7. Global Air Bearings Market by Segment, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 8. Global Air Bearings Market by Region, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 9. Global Air Bearings Market by Segment, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 10. Global Air Bearings Market by Region, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 11. Global Air Bearings Market by Segment, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 12. Global Air Bearings Market by Region, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 13. Global Air Bearings Market by Segment, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 14. Global Air Bearings Market by Region, Estimates & Forecasts, 2022-2032  
(USD Billion)

TABLE 15. U.S. Air Bearings Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Air Bearings Market Estimates & Forecasts by Segment 2022-2032  
(USD Billion)

TABLE 17. U.S. Air Bearings Market Estimates & Forecasts by Segment 2022-2032  
(USD Billion)

TABLE 18. Canada Air Bearings Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Air Bearings Market Estimates & Forecasts by Segment 2022-2032

(USD Billion)

TABLE 20. Canada Air Bearings Market Estimates & Forecasts by Segment 2022-2032

(USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Air Bearings Market, Research Methodology
- FIG 2. Global Air Bearings Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods.
- FIG 4. Global Air Bearings Market, Key Trends 2023
- FIG 5. Global Air Bearings Market, Growth Prospects 2022-2032
- FIG 6. Global Air Bearings Market, Porter's 5 Force Model
- FIG 7. Global Air Bearings Market, PESTEL Analysis
- FIG 8. Global Air Bearings Market, Value Chain Analysis
- FIG 9. Global Air Bearings Market by Segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Air Bearings Market by Segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Air Bearings Market by Segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Air Bearings Market by Segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Air Bearings Market by Segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Air Bearings Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Air Bearings Market 2022 & 2032 (USD Billion)
- FIG 16. Europe Air Bearings Market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Air Bearings Market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Air Bearings Market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Air Bearings Market 2022 & 2032 (USD Billion)
- FIG 20. Global Air Bearings Market, Company Market Share Analysis (2023)

.....

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