

# Global Ultra Precision Air Bearing Spindles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Ultra Precision Air Bearing Spindles market size was valued at US\$ 122 million in 2025 and is forecast to a readjusted size of US\$ 188 million by 2032 with a CAGR of 6.3% during review period.

An ultra-precision air-bearing spindle is a high-accuracy rotary spindle that utilizes air bearings to create a supporting gas film. By generating an extremely thin layer of air between the shaft and the bearing, it achieves virtually contactless and frictionless rotation, significantly reducing vibration, frictional heat, and mechanical wear. Compared to traditional rolling-element or sliding-bearing spindles, ultra-precision air-bearing spindles maintain nanometer- or sub-micron-level radial runout and axial vibration control even at high rotational speeds, ensuring exceptional repetitive positioning accuracy and surface finish quality. These spindles are widely used in cutting-edge fields such as ultra-precision optical machining, semiconductors, Micro-Electro-Mechanical Systems (MEMS) manufacturing, and high-precision inspection instruments. With advantages including high stiffness, superior stability, low noise, and an ultra-long service life, they serve as the core component for ultra-high-precision manufacturing and measurement systems. In 2025, the global sales volume of ultra-precision air-bearing spindles was approximately 6,760 units, with an average selling price of approximately US\$17,600 per unit. The ultra-precision air-bearing spindle industry chain is a technology-intensive ecosystem supported by fundamental scientific research, driven by cutting-edge manufacturing in the midstream, and propelled by high-end demand in the downstream. The upstream of the industry chain focuses on high-performance materials and core components, including special ceramics with low thermal expansion coefficients, stainless steel, and porous graphite materials, as well as high-resolution encoders, ultra-high frequency motor stators and rotors, and ultra-

clean air circuit control components. The midstream segment is the core of the industry chain, deeply integrating precision fluid dynamics design, sub-micron ultra-precision machining (such as single-point diamond turning and nano-grinding), and complex dynamic balance compensation processes. These technologies collectively determine the spindle's rigidity, rotational accuracy, and thermal stability. The downstream of the industry chain directly targets the 'crown jewel' of the manufacturing field, widely used in ultra-precision optical lens processing, semiconductor wafer thinning and dicing, MEMS manufacturing, and high-precision metrology and testing. With the iteration of global precision manufacturing capabilities, this industrial chain is evolving towards lighter weight, higher rigidity, and intelligent self-sensing, and is a key pillar for realizing independent control of cutting-edge equipment and improving the benchmark dimension of industrial manufacturing.

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

Global Ultra Precision Air Bearing Spindles 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 Ultra Precision Air Bearing Spindles 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 Ultra Precision Air Bearing Spindles 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:**

*Global Ultra Precision Air Bearing Spindles Market 2026 by Manufacturers, Regions, Type and Application, Forec...*

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ultra Precision Air Bearing Spindles

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 Ultra Precision Air Bearing Spindles 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 Novanta, Professional Instruments, AMETEK Precitech, New Way Air Bearings, Nakanishi, NTN Corporation, Loadpoint Bearings, ABTech Inc., GMN Paul Müller, GL Tech, etc.

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

## **Market Segmentation**

Ultra Precision Air Bearing Spindles 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

Air-static Spindle

Air-dynamic Spindle

### Market segment by Throttling Method

Small-hole Throttling Type

Porous Material Throttling Type

Annular/Surface Throttling Type

### Market segment by Application

Ultra-precision Optical Machining

Semiconductor Manufacturing & Packaging

Ultra-precision Inspection & Measurement

Other

#### Major players covered

Novanta

Professional Instruments

AMETEK Precitech

New Way Air Bearings

Nakanishi

NTN Corporatio

Loadpoint Bearings

ABTech Inc.

GMN Paul M?ller

GL Tech

Guangzhou Haozhi Industrial

Hunan SUND Technological Corporation

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 Ultra Precision Air Bearing Spindles product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultra Precision Air Bearing Spindles 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 Ultra Precision Air Bearing Spindles 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 Ultra Precision Air Bearing Spindles.

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

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