

Global Oil-free Air Bearing Centrifugal Compressors 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 Oil-free Air Bearing Centrifugal Compressors market size was valued at US\$ 205 million in 2025 and is forecast to a readjusted size of US\$ 567 million by 2032 with a CAGR of 15.4% during review period.

Oil-free air-bearing centrifugal compressor is an important technology route within oil-free centrifugal compressors. It uses aerodynamic gas bearings, air foil bearings or other gas-film-supported bearing structures instead of conventional oil-lubricated bearing systems, and integrates a high-speed permanent magnet motor, centrifugal impeller, variable-frequency drive and intelligent control system to achieve oil-free, high-speed, low-friction and low-maintenance operation. Its upstream supply chain mainly includes high-speed motors, impellers, gas bearings, power semiconductors, inverters, controllers, castings and precision-machined parts, sensors and sealing materials, while downstream customers include centrifugal chiller manufacturers, data center cooling system integrators, industrial compressed air users, food and beverage producers, pharmaceutical companies, electronics and semiconductor manufacturers, fuel cell system suppliers and energy storage thermal management equipment manufacturers. On an ex-factory basis, global nominal capacity of oil-free air-bearing centrifugal compressors is estimated at about 5,200 units in 2025, with sales volume of around 3,680 units, an average ex-factory price of approximately USD 54,000 per unit, and global market revenue of about USD 199 million. The industry gross margin is generally in the range of 28%–42%.

The market for oil-free air-bearing centrifugal compressors is moving from technical validation toward broader commercialization, supported by demand from high-efficiency

cooling, industrial energy saving, oil-free clean compressed air and emerging thermal management applications. In HVAC and chiller systems, air-bearing compressors are gradually being adopted in data centers, hospitals, rail transit facilities, commercial complexes and industrial cooling stations due to their oil-free operation, low friction, high part-load efficiency and reduced maintenance requirements. In industrial compressed air applications, sectors such as food and beverage, pharmaceuticals, electronics, semiconductors and precision manufacturing require stable and clean oil-free air, creating opportunities for air-bearing centrifugal compressors to replace conventional oil-free screw compressors and some oil-lubricated centrifugal systems.

Over the next few years, market growth will be driven mainly by localization, energy-saving retrofits and expansion into higher-value applications. China has already developed a sizeable installed base for oil-free centrifugal compressors, with magnetic-bearing products still holding the dominant share, while air-bearing technology has room to increase penetration thanks to its simpler structure, lower maintenance potential and improving cost competitiveness. As high-speed permanent magnet motors, air foil bearings, variable-frequency drives, impeller machining and intelligent control algorithms continue to mature, product reliability and production consistency are expected to improve. This will allow air-bearing centrifugal compressors to expand from chillers and industrial air systems into energy storage thermal management, fuel cell air supply, new energy vehicle heat pumps and specialized process gas compression.

The main growth drivers are energy-efficiency policies, low-carbon operation, lifecycle cost reduction and equipment upgrading by downstream users. For large public buildings, data centers and industrial parks, compressor energy consumption represents an important part of total system operating cost, and high-efficiency oil-free centrifugal compression technology can help reduce electricity and maintenance expenses over the equipment lifecycle. At the same time, the transition to low-GWP refrigerants, electrification of industrial equipment, green factory construction and the push for localized high-end equipment supply will support further project adoption. Future competition will focus not only on unit efficiency, but also on wide operating range, start-stop durability, surge control, system-level integration efficiency, digital operation and maintenance, and after-sales service capability.

However, the market still faces several constraints. Magnetic-bearing centrifugal compressors already have strong market recognition and a broader customer base in the oil-free centrifugal segment, so air-bearing technology must further prove its advantages in reliability, cost and maintenance convenience. In addition, air bearings and foil bearings require high standards in materials, coatings, rotor balancing, thermal

management and start-stop operation, making stable mass production a key barrier to entering high-end customer supply chains. Many customers also require long-term operating data before adopting new compressor platforms, which can lengthen project validation cycles and slow penetration in the short term. Overall, oil-free air-bearing centrifugal compressors are expected to maintain relatively fast growth, but market expansion will likely follow a staged path, with early adoption in high-end applications, gradual replacement in mature use cases and steady penetration into long-tail markets.

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

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

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

Global Oil-free Air Bearing Centrifugal Compressors market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Oil-free Air Bearing Centrifugal Compressors

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 Oil-free Air Bearing Centrifugal Compressors 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 Copeland, Garrett Motion, FISCHER Spindle Group, Continental Industrie, Turbo Technology, Gree Electric Appliances, United Compressor, etc.

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

Market Segmentation

Oil-free Air Bearing Centrifugal Compressors 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

Aerodynamic Gas Bearing

Air Foil Bearing

Other

Market segment by Compressed Medium

Refrigerant Compressor

Air Compressor

Other

Market segment by Power Rating

Below 50 kW

50–150 kW

150–500 kW

500–1,000 kW

Above 1,000 kW

Market segment by Application

HVAC Chillers

Data Center Cooling

Process Cooling and Heat Pump

Other

Major players covered

Copeland

Garrett Motion

FISCHER Spindle Group

Continental Industrie

Turbo Technology

Gree Electric Appliances

United Compressor

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 Oil-free Air Bearing Centrifugal Compressors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Oil-free Air Bearing Centrifugal Compressors 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 Oil-free Air Bearing Centrifugal Compressors 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 Oil-free Air Bearing Centrifugal Compressors.

Chapter 14 and 15, to describe Oil-free Air Bearing Centrifugal Compressors sales channel, distributors, customers, research findings and conclusion.

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