

# Global Oil-free Air Bearing Centrifugal Compressors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7D698124616EN.html>

Date: June 2026

Pages: 96

Price: US\$ 4,480.00 (Single User License)

ID: G7D698124616EN

## Abstracts

The global Oil-free Air Bearing Centrifugal Compressors market size is expected to reach \$ 567 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

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 studies the global Oil-free Air Bearing Centrifugal Compressors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil-free Air Bearing Centrifugal Compressors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Oil-free Air Bearing Centrifugal Compressors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oil-free Air Bearing Centrifugal Compressors total production and demand, 2021-2032, (Units)

Global Oil-free Air Bearing Centrifugal Compressors total production value, 2021-2032, (USD Million)

Global Oil-free Air Bearing Centrifugal Compressors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Oil-free Air Bearing Centrifugal Compressors consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Oil-free Air Bearing Centrifugal Compressors domestic production, consumption, key domestic manufacturers and share

Global Oil-free Air Bearing Centrifugal Compressors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Oil-free Air Bearing Centrifugal Compressors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Oil-free Air Bearing Centrifugal Compressors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Oil-free Air Bearing Centrifugal Compressors market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Oil-free Air Bearing Centrifugal Compressors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Oil-free Air Bearing Centrifugal Compressors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-free Air Bearing Centrifugal Compressors Market, Segmentation by Type:

Aerodynamic Gas Bearing

Air Foil Bearing

Other

Global Oil-free Air Bearing Centrifugal Compressors Market, Segmentation by Compressed Medium:

Refrigerant Compressor

Air Compressor

Other

Global Oil-free Air Bearing Centrifugal Compressors Market, Segmentation by Power Rating:

Below 50 kW

50–150 kW

150–500 kW

500–1,000 kW

Above 1,000 kW

Global Oil-free Air Bearing Centrifugal Compressors Market, Segmentation by Application:

HVAC Chillers

Data Center Cooling

Process Cooling and Heat Pump

Other

### Companies Profiled:

Copeland

Garrett Motion

FISCHER Spindle Group

Continental Industrie

Turbo Technology

Gree Electric Appliances

United Compressor

### Key Questions Answered:

1. How big is the global Oil-free Air Bearing Centrifugal Compressors market?
2. What is the demand of the global Oil-free Air Bearing Centrifugal Compressors market?
3. What is the year over year growth of the global Oil-free Air Bearing Centrifugal Compressors market?
4. What is the production and production value of the global Oil-free Air Bearing Centrifugal Compressors market?
5. Who are the key producers in the global Oil-free Air Bearing Centrifugal Compressors market?
6. What are the growth factors driving the market demand?

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