

Global Oil-free Air Bearing Centrifugal Compressors Market Growth 2026-2032

<https://marketpublishers.com/r/G3E5BFF2BF22EN.html>

Date: July 2026

Pages: 93

Price: US\$ 3,660.00 (Single User License)

ID: G3E5BFF2BF22EN

Abstracts

The global Oil-free Air Bearing Centrifugal Compressors market size is predicted to grow from US\$ 195 million in 2025 to US\$ 567 million in 2032; it is expected to grow at a CAGR of 16.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Oil-free Air Bearing Centrifugal Compressors Industry Forecast" looks at past sales and reviews total world Oil-free Air Bearing Centrifugal Compressors sales in 2025, providing a comprehensive analysis by region and market sector of projected Oil-free Air Bearing Centrifugal Compressors sales for 2026 through 2032. With Oil-free Air Bearing Centrifugal Compressors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oil-free Air Bearing Centrifugal Compressors industry.

This Insight Report provides a comprehensive analysis of the global Oil-free Air Bearing Centrifugal Compressors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Oil-free Air Bearing Centrifugal Compressors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oil-free Air Bearing Centrifugal Compressors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oil-free Air Bearing Centrifugal Compressors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Oil-free Air Bearing Centrifugal Compressors.

This report presents a comprehensive overview, market shares, and growth opportunities of Oil-free Air Bearing Centrifugal Compressors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aerodynamic Gas Bearing

Air Foil Bearing

Other

Segmentation by Compressed Medium:

Refrigerant Compressor

Air Compressor

Other

Segmentation by Power Rating:

Below 50 kW

50?150 kW

150?500 kW

500?1,000 kW

Above 1,000 kW

Segmentation by Application:

HVAC Chillers

Data Center Cooling

Process Cooling and Heat Pump

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Copeland

Garrett Motion

FISCHER Spindle Group

Continental Industrie

Turbo Technology

Gree Electric Appliances

United Compressor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oil-free Air Bearing Centrifugal Compressors market?

What factors are driving Oil-free Air Bearing Centrifugal Compressors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Oil-free Air Bearing Centrifugal Compressors market opportunities vary by end market size?

How does Oil-free Air Bearing Centrifugal Compressors break out by Type, by Application?

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