

Global Oil-free Centrifugal Blower Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil-free Centrifugal Blower market size is expected to reach \$ 647 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032). In 2025, global sales of oil-free centrifugal blowers reached 48,000 units, with an average selling price of US\$8,500. Oil-free centrifugal blowers are high-efficiency gas conveying equipment that generates airflow through centrifugal impellers and does not require lubrication during operation. They are characterized by low noise, maintenance-free operation, clean gas, and energy efficiency, and are widely used in industries such as industrial pneumatic conveying, environmental protection equipment, sewage treatment, electronic semiconductors, pharmaceuticals, and food and beverage. Its upstream raw materials mainly include cast aluminum or cast steel housings, high-strength steel impellers, motors and bearing assemblies. On average, a single unit consumes about 0.35 tons of aluminum, 0.15 tons of steel, and about 0.12 tons of motors and electronic control components. Downstream, it mainly supplies industrial equipment manufacturers, sewage treatment plants, and food and beverage factories, with industrial applications accounting for 50%, environmental protection and water treatment accounting for 30%, and pharmaceuticals and food and beverage accounting for 20%. The global total capacity is about 60,000 units/year, and the industry's gross profit margin is about 28%-38%. In terms of downstream consumption, newly built production lines and system support account for 65%, and equipment upgrades and maintenance account for 35%. The future direction lies in upgrading towards high pressure and high flow, high efficiency and energy saving, intelligent control, and low vibration and noise. With the popularization of industrial automation, environmental protection requirements, and high-cleanliness processes, the market demand for oil-free centrifugal blowers is steadily growing. At the same time, high-end customization and energy efficiency optimization provide long-term business opportunities for the industry. The oil-free centrifugal blower market is showing a trend of steady growth alongside

high-end upgrades. Due to its oil-free operation, clean output gas, low noise, and low maintenance costs, it is widely used in various industries such as environmental protection, wastewater treatment, semiconductors, food and beverage, pharmaceuticals, and industrial pneumatic conveying. Demand for oil-free centrifugal blowers is inelastic and continues to grow. Especially in the environmental protection and water treatment sectors, with increasingly stringent emission standards in various countries and accelerated upgrades to wastewater treatment and pneumatic conveying equipment, oil-free centrifugal blowers have become essential equipment, driving market penetration towards mid-to-high-end equipment.

From a technological perspective, the industry is evolving from traditional mechanized equipment towards high-pressure, high-flow, low-energy-consumption, low-noise, and intelligent control. Digital monitoring, automatic speed regulation, and energy consumption optimization have become important means for enterprises to enhance added value and competitiveness, creating differentiated advantages in energy conservation, emission reduction, and stable output.

In terms of the competitive landscape, the global market concentration is moderate. European and American companies have an advantage in high-end applications and technical standards, while Chinese and Southeast Asian companies occupy most of the low-to-mid-end market due to their cost and production capacity advantages.

Downstream customers are primarily industrial automation, environmental protection, and food and pharmaceutical companies. Some companies are increasingly reliant on long-term suppliers and customized solutions, giving the market stickiness and sustainability.

Overall, the oil-free centrifugal blower market is experiencing steady growth. Future growth will mainly come from continued expansion in the environmental protection and wastewater treatment sectors, industrial automation upgrades, high-end customization, and energy conservation and emission reduction trends. Meanwhile, intelligent and remote monitoring capabilities will become competitive barriers, indicating a stable industry outlook with medium- to long-term value-added potential.

This report studies the global Oil-free Centrifugal Blower production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil-free Centrifugal Blower 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 Centrifugal Blower that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oil-free Centrifugal Blower total production and demand, 2021-2032, (K Units)

Global Oil-free Centrifugal Blower total production value, 2021-2032, (USD Million)

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

Global Oil-free Centrifugal Blower consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Oil-free Centrifugal Blower production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Oil-free Centrifugal Blower production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Oil-free Centrifugal Blower 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 Atlas Copco, DENAIR, Hoffman & Lamson, Chart Industries, Mapro? international, SCB Vacuum Tech Limited, AIRCOM TECHNOLOGY LTD., AquaSust, UNITED OSD, Jinyuan Air 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 Centrifugal Blower market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Centrifugal Blower Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-free Centrifugal Blower Market, Segmentation by Type:

High-speed Direct Drive Motor

Gear Speed Increaser Drive

Belt Drive

Others

Global Oil-free Centrifugal Blower Market, Segmentation by Cooling Method:

Air Cooling

Water Cooling

Global Oil-free Centrifugal Blower Market, Segmentation by Exhaust Pressure:

Exhaust Pressure: 10-50 kPa

Exhaust Pressure: 50-150 kPa

Exhaust Pressure: 150-300 kPa

Others

Global Oil-free Centrifugal Blower Market, Segmentation by Application:

Industrial

Environmental Protection

Electricity

Chemicals

Others

Companies Profiled:

Atlas Copco

DENAIR

Hoffman & Lamson

Chart Industries

Mapro? international

SCB Vacuum Tech Limited

AIRCOM TECHNOLOGY LTD.

AquaSust

UNITED OSD

Jinyuan Air Compressor

Bossgoo

Key Questions Answered:

1. How big is the global Oil-free Centrifugal Blower market?
2. What is the demand of the global Oil-free Centrifugal Blower market?

3. What is the year over year growth of the global Oil-free Centrifugal Blower market?
4. What is the production and production value of the global Oil-free Centrifugal Blower market?
5. Who are the key producers in the global Oil-free Centrifugal Blower market?
6. What are the growth factors driving the market demand?

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