

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

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Abstracts

The global Oil-free Screw Blower market size is expected to reach \$ 865 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global oil-free screw blower production reached approximately 5180 units, the average price is 120 k usd/unit. The oil-free screw blower is generally mainly composed of a cover, a main engine, a motor, an air filter, a muffler, an oil pump tank and an oil filter. The oil-free screw blower achieves internal compression in the process of gas delivery in the cavity, so the screw has most of the advantages of Roots, and at the same time has higher efficiency than Roots, and the process of gas delivery and compression is continuous and progressive. , Air pulsation is lower, exhaust noise, temperature control, etc. are better than traditional fans such as Roots. Widely used in environmental protection and industrial production.

Market Concentration and Key Players:

From an international perspective, the oil-free screw blower market concentration is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, Atlas Copco and Ingersoll Rand and other large manufacturers; from the domestic point of view, oil-free screw blower manufacturers are interested in Lang Industrial and Guangzhou Emma compressor.

Manufacturing Processes and Market Trends:

The core of the manufacturing process of the oil-free screw blower lies in the precise meshing and oil-free design of its twin screw rotors. Through the reverse rotation of a pair of male and female rotors in the cylinder, the continuous suction, compression and

exhaust processes of the gas are realized. This process does not require the participation of lubricating oil, thus ensuring the purity of the output air. Its production involves precision machining of rotors made of high-strength alloy steel, special profile design to reduce hydrodynamic losses, and advanced sealing technology to avoid oil contamination. The machine integrates air filters, mufflers and intelligent control systems, and adopts modular design to improve compactness and ease of maintenance.

In terms of market trends, the global and China oil-free screw blower markets are showing a steady growth trend, with demand mainly from sewage treatment, food and beverage, electronics manufacturing, chemical and pharmaceutical industries, which have strict requirements for the purity of compressed air and energy conservation and environmental protection. In the future, more attention will be paid to intelligence and energy saving, remote monitoring and predictive maintenance will be realized through Internet of Things technology, and permanent magnet frequency conversion and other technologies will be adopted to further improve energy efficiency. At the same time, industry competition forces manufacturers to continuously optimize costs and provide customized solutions to meet the needs of diverse application scenarios.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Oil-free Screw Blower production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Oil-free Screw 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, Ingersoll Rand, Aerzen, CompAir, Kaeser Kompressoren, Hitachi Industrial Equipment, BERG Kompressoren, ELGi Equipments, Howden Group, Busch Vacuum Solutions, 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 Screw Blower market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Structure, 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 Screw Blower Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-free Screw Blower Market, Segmentation by Structure:

Single Screw Blower

Twin Screw Blower

Global Oil-free Screw Blower Market, Segmentation by Drive:

Constant Velocity

Conversion

Permanent Magnet Synchronous Motor Direct Drive

Global Oil-free Screw Blower Market, Segmentation by Cooling:

Air-cooled

Water-cooled

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

Medical

Iron Industrial

Power Plant

Textile Industrial

Others

Companies Profiled:

Atlas Copco

Ingersoll Rand

Aerzen

CompAir

Kaeser Kompressoren

Hitachi Industrial Equipment

BERG Kompressoren

ELGi Equipments

Howden Group

Busch Vacuum Solutions

Alup Kompressoren

Ceccato

Shanghai United Compressor

Denair Energy Saving Technology

Guangzhou Airhorse Compressor

Elang Industrial

Huizhou Dehong Air Compressor

Shanghai Baijian Compressor

Wallboge (Suzhou) Compressor

Desran Compressor (Shanghai)

Juhong (Xiamen) Machinery

Shanghai Xinran Compressor

Ningbo Baosi Energy Equipment

Kaishan Group

Ningbo Deman Compressor

Key Questions Answered:

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

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