

Global Oil-Free Rotary Screw Air Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil-Free Rotary Screw Air Compressor market size is expected to reach \$ 515 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global Oil-Free Rotary Screw Air Compressor Production Catalyst Production Catalyst Production production reached approximately 30.8 k units with an average global market price of around k US\$11 per unit. Single-line annual production capacity averages 1500 units with a gross margin of approximately 35-40%. The upstream supply chain of oil-free rotary screw air compressors centers on the manufacturing of high-precision screw rotors, specialized coating materials (such as PTFE composites), and efficient air cooling systems, with core technologies concentrated in the fields of precision machining and material surface engineering. In the downstream market, the food and beverage industry accounts for the largest share (approximately 30%), medical and dental applications make up about 25%, electronics manufacturing represents 20%, while oil and gas and chemical industries combined contribute 15%, with the remaining 10% distributed across other sectors such as scientific research and textiles. Current demand is primarily driven by the tightening of global food safety production standards, stricter medical device certifications, and the expansion of cleanroom facilities in the electronics industry. Future opportunities lie in the large-scale development of the hydrogen energy industry chain, the widespread adoption of sterile processes in biopharmaceuticals, and the rigid demand for zero-oil-contamination compressed air sources in the process reengineering of traditional chemical sectors.

The oil-free rotary screw air compressor operates without lubricating oil in its compression chamber, achieved through precisely engineered screw rotor profiles manufactured from wear-resistant materials such as coated alloys or composites, along

with advanced cooling systems that manage heat dissipation solely through air or water. This design ensures the compressed air remains entirely free from oil contaminants, eliminating the risk of oil carryover that could compromise downstream equipment or end-product quality. By removing the need for oil separation filters and reducing maintenance associated with oil changes and disposal, the system enhances operational reliability while lowering long-term lifecycle costs. The absence of oil also prevents potential degradation of catalysts or contamination in sensitive processes, making the compressor inherently capable of delivering high-purity air consistently across varying load conditions.

The future development of oil-free rotary screw air compressors will center on achieving higher energy efficiency and broader scenario adaptability. On one hand, through optimizing rotor profiles, adopting magnetic levitation bearings, and implementing intelligent variable frequency control technologies, energy utilization efficiency across all operating conditions will be continuously enhanced, alongside exploring low-carbon air supply solutions integrated with renewable energy sources. On the other hand, to meet high-pressure demands such as hydrogen energy storage and transportation as well as carbon capture, breakthroughs are required in high-temperature deformation resistance technology for screw rotors under oil-free conditions and in the design of high-pressure differential sealing structures, while also developing specialized coatings to accommodate different media such as hydrogen and industrial exhaust gases. At the intelligence level, the integration of multi-sensor fusion and digital twin technology will enable real-time monitoring of rotor meshing status and system leakage, achieving predictive maintenance and dynamic energy efficiency adjustment. Furthermore, modular designs will support rapid deployment in scenarios such as distributed energy systems and mobile refueling stations, while the refinement of remanufacturing services and carbon footprint tracking systems will drive the industry's transition from a single-equipment sales model to a full lifecycle air source quality management model.

This report studies the global Oil-Free Rotary Screw Air Compressor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Oil-Free Rotary Screw Air Compressor total production and demand, 2021-2032, (K Units)

Global Oil-Free Rotary Screw Air Compressor total production value, 2021-2032, (USD Million)

Global Oil-Free Rotary Screw Air Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Oil-Free Rotary Screw Air Compressor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Oil-Free Rotary Screw Air Compressor domestic production, consumption, key domestic manufacturers and share

Global Oil-Free Rotary Screw Air Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Oil-Free Rotary Screw Air Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Oil-Free Rotary Screw Air Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Oil-Free Rotary Screw Air Compressor 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 ELGi Equipments, Hitachi (Sullair), CompAir, ALUP Compressors, Aerzen, Everllence, Quincy Compressor, Comairco, Howden Group, Ingersoll Rand, 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 Rotary Screw Air Compressor 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 Rotary Screw Air Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-Free Rotary Screw Air Compressor Market, Segmentation by Type:

0-160 kW

161-250 kW

251-355 kW

Above 356 kW

Global Oil-Free Rotary Screw Air Compressor Market, Segmentation by Form:

Scroll Compressor

Horizontal Type Compressor

Global Oil-Free Rotary Screw Air Compressor Market, Segmentation by Cooling Method:

Water-cooled

Air-cooled

Global Oil-Free Rotary Screw Air Compressor Market, Segmentation by Application:

Food and Beverag

Electronics

Medical & Dental

Oil & Gas

Chemical

Others

Companies Profiled:

ELGi Equipments

Hitachi (Sullair)

CompAir

ALUP Compressors

Aerzen

Everllence

Quincy Compressor

Comairco

Howden Group

Ingersoll Rand

Atlas Copco

BOGE

Dream Compressor

Kobelco Compressors

Gardner Denver

Fu Sheng Industrial

Shanghai Feihe Compressor Manufacturing

Shanghai Hanbell Precise Machinery

Shanghai Screw Compressor

Xiamen Dingrongyan Technology

Key Questions Answered:

1. How big is the global Oil-Free Rotary Screw Air Compressor market?
2. What is the demand of the global Oil-Free Rotary Screw Air Compressor market?
3. What is the year over year growth of the global Oil-Free Rotary Screw Air Compressor market?
4. What is the production and production value of the global Oil-Free Rotary Screw Air Compressor market?

5. Who are the key producers in the global Oil-Free Rotary Screw Air Compressor market?
6. What are the growth factors driving the market demand?

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