

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

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## Abstracts

The global Oil Free Rotary Screw 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 Compressor 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 compressors focuses on the manufacturing of high-precision screw rotors, specialized wear-resistant coatings (such as PTFE composite coatings), and highly efficient air-cooled/water-cooled systems, with its technological core rooted in precision machining and material surface treatment processes. In the downstream market application distribution, the food and beverage industry accounts for the highest proportion at approximately 28%, electronics manufacturing makes up 22%, the medical and dental sectors represent 20%, oil and gas combined with chemical industries total 18%, and the remaining 12% is distributed across scenarios such as textiles and laboratories. Current demand is primarily driven by the upgrading of global food safety standards, the expansion of cleanrooms in the electronics industry, and the tightening of sterile certification requirements for medical equipment. Future opportunities are centered on the large-scale expansion of the hydrogen energy industry chain, the widespread adoption of sterile processes in the biopharmaceutical industry, and the systematic replacement demand for zero-oil-contamination air sources in traditional industrial sectors.

An oil-free rotary screw compressor completely eliminates lubricating oil from the compression chamber by utilizing precision-engineered screw rotors with permanently lubricated or coated surfaces, along with advanced cooling systems that rely solely on

air or water for heat dissipation. This design ensures the compressed air remains entirely free of oil contaminants, avoiding risks such as oil aerosol carryover, downstream filter clogging, or product contamination in sensitive processes. By removing the need for oil separation systems and frequent maintenance associated with oil changes and disposal, the compressor achieves higher operational reliability while reducing long-term lifecycle costs and environmental compliance burdens. The absence of oil also prevents chemical degradation of catalysts or sensitive materials in the compressed air stream, enabling consistent delivery of high-purity air across varying operational loads and environmental conditions.

The future development of oil-free rotary screw compressors will focus on improving overall energy efficiency and expanding adaptability to high-pressure and high-temperature scenarios. On one hand, through optimizing rotor profiles, integrating high-efficiency permanent magnet motors, and implementing intelligent control systems, energy consumption across all operating conditions will be reduced, while exploring low-carbon air supply models coupled with renewable energy sources. On the other hand, to meet the demand for high-pressure equipment (e.g., above 70 MPa) in fields such as hydrogen energy storage and transportation and carbon capture, it is essential to overcome the thermal management challenges of screw rotors under oil-free conditions, developing high-temperature stable coatings and adaptive sealing technologies. At the intelligence level, the integration of multi-sensor data and digital twin models will enable real-time monitoring of rotor wear and gas purity changes, achieving predictive maintenance and dynamic energy efficiency regulation. Simultaneously, modular designs will support rapid deployment in scenarios such as mobile hydrogen refueling stations and distributed energy systems, while the improvement of remanufacturing systems and carbon tracking mechanisms will drive the industry's transition from equipment sales to comprehensive solutions that provide air source quality management and carbon emission reduction services.

This report studies the global Oil Free Rotary Screw 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 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 Compressor that contribute to its increasing demand across many markets.

## **Highlights and key features of the study**

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

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

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

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

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

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

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

Global Oil Free Rotary Screw 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 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 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 Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Below 50 HP

50-100 HP

Above 100 HP

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

Scroll Compressor

Horizontal Type Compressor

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

Water-cooled

Air-cooled

Global Oil Free Rotary Screw 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 Compressor market?
2. What is the demand of the global Oil Free Rotary Screw Compressor market?
3. What is the year over year growth of the global Oil Free Rotary Screw Compressor market?
4. What is the production and production value of the global Oil Free Rotary Screw Compressor market?
5. Who are the key producers in the global Oil Free Rotary Screw Compressor market?
6. What are the growth factors driving the market demand?

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