

# Global Oil-Free Scroll Pumps Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Oil-Free Scroll Pumps market size is expected to reach \$ 1810 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Oil-Free Scroll Pumps are dry mechanical vacuum pumps that use an orbiting scroll and a fixed scroll to create continuously moving compression chambers for gas intake, compression, and exhaust without oil lubrication in the pumping chamber. Their core structure typically includes scroll sets, an eccentric drive mechanism, anti-rotation components, tip seals, motor assembly, cooling system, inlet and exhaust ports, and control electronics. The key value of this product lies in preventing oil backstreaming and oil vapor contamination while reducing maintenance requirements and delivering stable rough vacuum or backing vacuum performance under low-noise, low-vibration, and clean-exhaust operating conditions. Major production is concentrated in Europe, the United States, Japan, and China, with typical applications in analytical instruments, mass spectrometry, helium leak detection, freeze drying, laboratory vacuum systems, semiconductor and electronics manufacturing, coating equipment, research facilities, and clean industrial processes. The product is particularly suitable for small and medium pumping-speed vacuum applications that require cleanliness, reliability, a controlled working environment, and lower total cost of ownership, but do not require large dry screw or roots pump systems.

In 2025, global Oil-Free Scroll Pumps production reached approximately 220 thousand to 250 thousand units. The mainstream FOB price ranged from about USD 4,300 to USD 5,100 per unit, with small laboratory pumps positioned at the lower end and semiconductor, analytical-instrument, and chemical-resistant models priced materially above the average. From 2026 to 2032, the market is expected to maintain moderate growth, driven by replacement of oil-sealed pumps, expansion of analytical instrument

installations, demand from semiconductor and electronics manufacturing, and higher penetration of clean industrial vacuum systems.

The global Oil-Free Scroll Pumps market is being supported by the structural expansion of clean vacuum demand, laboratory automation, semiconductor process support, life science analytical instruments, and high-end manufacturing. Compared with conventional oil-sealed rotary vane pumps, oil-free scroll pumps reduce oil replacement, waste oil handling, and oil mist emissions, making them more suitable for clean laboratories, mass spectrometry systems, leak detection equipment, research platforms, and electronics manufacturing environments. As analytical instruments move toward compact design, higher integration, and continuous operation, equipment manufacturers are increasingly adopting dry vacuum sources with low noise, low maintenance, and integrated control functions. At the same time, rising cleanliness and process stability requirements in semiconductor, photovoltaic, lithium battery, advanced materials, and precision manufacturing sectors are expanding the use of oil-free scroll pumps in backing vacuum, auxiliary vacuum, and clean process support.

The market still faces several constraints. High-end oil-free scroll pumps require precise scroll machining, durable sealing materials, efficient thermal management, and long-term reliability, resulting in higher manufacturing costs than conventional oil-sealed pumps. Scroll pumps also have operating limitations in high-dust, highly corrosive, high-moisture, or high-throughput continuous-duty environments, where gas ballast, corrosion-resistant designs, filtration, or alternative dry pump technologies may be required. In addition, established global brands retain advantages in technology, service networks, and customer certification, while new entrants must prove lifecycle reliability, noise performance, serviceability, and system integration capability. Future demand will remain concentrated in analytical instruments, laboratory equipment, semiconductor and electronics manufacturing, clean industrial processes, and research facilities, with medium and small pumping-speed models, smart control, chemical resistance, low noise, and modular integration becoming the main directions of product development.

This report studies the global Oil-Free Scroll Pumps production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Oil-Free Scroll Pumps total production and demand, 2021-2032, (Units)

Global Oil-Free Scroll Pumps total production value, 2021-2032, (USD Million)

Global Oil-Free Scroll Pumps production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Oil-Free Scroll Pumps consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Oil-Free Scroll Pumps domestic production, consumption, key domestic manufacturers and share

Global Oil-Free Scroll Pumps production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Oil-Free Scroll Pumps production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Oil-Free Scroll Pumps production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Oil-Free Scroll Pumps 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 AB (Edwards, Leybold and Atlas Copco Vacuum), Busch Group (Pfeiffer Vacuum+Fab Solutions and Busch FOSSA), Agilent Technologies, Inc., ANEST IWATA Corporation, ULVAC, Inc., ORION Machinery Co., Ltd., Ingersoll Rand Inc. (Welch Vacuum), Air Squared, Inc., Scroll Laboratories, Inc., Chinese Academy of Sciences Shenyang Scientific Instrument Co., Ltd., 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 Scroll Pumps market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Oil-Free Scroll Pumps Market, Segmentation by Type:

Low Power (3 kW)

#### Global Oil-Free Scroll Pumps Market, Segmentation by Pumping Speed:

Low Speed (60 m<sup>3</sup>/h)

#### Global Oil-Free Scroll Pumps Market, Segmentation by Ultimate Pressure:

Coarse Vacuum (>10 Pa)

Medium Vacuum (0.1 to 10 Pa)

Others (High Vacuum)

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