

Global Oil-Free Scroll Pumps Market Growth 2026-2032

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Abstracts

The global Oil-Free Scroll Pumps market size is predicted to grow from US\$ 1125 million in 2025 to US\$ 1757 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Oil-Free Scroll Pumps Industry Forecast" looks at past sales and reviews total world Oil-Free Scroll Pumps sales in 2025, providing a comprehensive analysis by region and market sector of projected Oil-Free Scroll Pumps sales for 2026 through 2032. With Oil-Free Scroll Pumps sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oil-Free Scroll Pumps industry.

This Insight Report provides a comprehensive analysis of the global Oil-Free Scroll Pumps landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Oil-Free Scroll Pumps portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oil-Free Scroll Pumps market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oil-Free Scroll Pumps and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Oil-Free Scroll Pumps.

This report presents a comprehensive overview, market shares, and growth opportunities of Oil-Free Scroll Pumps market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Power (3 kW)

Segmentation by Pumping Speed:

Low Speed (60 m³/h)

Segmentation by Ultimate Pressure:

Coarse Vacuum (>10 Pa)

Medium Vacuum (0.1 to 10 Pa)

Others (High Vacuum)

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