

Global Scroll Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Scroll Pump market size is expected to reach \$ 468 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

A Scroll Pump is a positive-displacement vacuum pump that generates vacuum by the relative motion of two interleaved spiral scrolls—one fixed and one orbiting—creating sealed crescent-shaped gas pockets that move continuously from the inlet to the exhaust, offering oil-free or oil-lubricated operation, low vibration, low noise, high reliability, and clean vacuum performance for industrial, scientific, and medical applications.

The scroll pump industry chain starts upstream with suppliers of precision castings, aluminum alloys, steel components, bearings, seals, motors, inverters, electronic control units and surface-treatment materials, continues midstream with scroll pump manufacturers responsible for scroll profile design, precision machining, assembly, testing and quality control, and extends downstream to vacuum system integrators, equipment OEMs, semiconductor fabs, laboratories, medical institutions and industrial end users requiring clean, stable and low-maintenance vacuum solutions.

Projects under construction and planned in the scroll pump sector mainly include expansion of precision vacuum pump manufacturing capacity, construction of automated machining and assembly lines, development of next-generation oil-free and high-efficiency scroll pumps, R&D investment in variable-speed and smart-controlled vacuum systems, localization of production in semiconductor-intensive regions, and strategic cooperation projects between pump manufacturers and semiconductor equipment or analytical instrument OEMs.

2025 Global Market sales Volume: 210,000 units. Average Global Market Price: USD

1,500 per unit. Market Average Gross Profit Margin: 35%.

The scroll pump market is experiencing stable and technology-driven growth, supported by rising demand for clean, oil-free vacuum solutions. Compared with rotary vane pumps, scroll pumps offer lower contamination risk, reduced maintenance, and quieter operation, making them increasingly preferred in sensitive applications. The semiconductor and analytical instrumentation industries are the core demand drivers. Market growth is closely tied to semiconductor capital expenditure cycles and laboratory investment trends. Technical barriers related to precision machining and reliability remain relatively high.

Regionally, Asia-Pacific is the largest and fastest-growing market, driven by semiconductor manufacturing expansion in China, South Korea, Taiwan, and Japan. North America and Europe represent mature markets with strong demand from research institutions, medical equipment, and high-end industrial applications. Emerging regions are gradually adopting scroll pumps as industrial quality standards improve. Regional demand is strongly correlated with semiconductor fab construction and R&D intensity.

Market opportunities include the shift toward oil-free vacuum systems, increasing adoption in medical and life-science equipment, and integration with smart vacuum control systems. Risks involve semiconductor industry cyclicity, high R&D and manufacturing costs, and competition from alternative dry vacuum technologies. Key market trends include higher energy efficiency, variable-speed operation, compact design, and longer maintenance intervals. Competitive characteristics are defined by a limited number of global leaders with strong intellectual property, precision manufacturing capabilities, and long-term OEM relationships, resulting in competition based more on performance, reliability, and service rather than price.

This report studies the global Scroll Pump production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Scroll Pump total production and demand, 2021-2032, (Units)
Global Scroll Pump total production value, 2021-2032, (USD Million)
Global Scroll Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Scroll Pump consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Scroll Pump domestic production, consumption, key domestic manufacturers and share
Global Scroll Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Scroll Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Scroll Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Scroll Pump 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, Edwards Vacuum, Anest Iwata, ULVAC, Air Squared Inc, Leybold, Agilent, Busch, SKY TECHNOLOGY DEVELOPMENT CO.,LTD, GEOWELL VACUUM 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 Scroll Pump 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 Scroll Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Scroll Pump Market, Segmentation by Type:

Pumping Speed

Pumping Speed 5–20 m³/h

Pumping Speed > 20 m³/h

Global Scroll Pump Market, Segmentation by Cooling Method:

Air-Cooled Scroll Pump

Water-Cooled Scroll Pump

Global Scroll Pump Market, Segmentation by Structural and Drive Design:

Single-Scroll Pump

Dual-Scroll Pump

Global Scroll Pump Market, Segmentation by Application:

Semiconductor Manufacturing

Laboratory Analysis

Medical Equipment

Other

Companies Profiled:

Atlas Copco

Edwards Vacuum

Anest Iwata

ULVAC

Air Squared Inc

Leybold

Agilent

Busch

SKY TECHNOLOGY DEVELOPMENT CO.,LTD

GOWELL VACUUM CO.,LTD

Advanced Scroll Technologies (Hangzhou) Inc

Baosi Group

Labconco

Key Questions Answered:

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

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