

# Global Oil-Free Dry Scroll Pumps Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Oil-Free Dry Scroll Pumps market size was valued at US\$ 1132 million in 2025 and is forecast to a readjusted size of US\$ 1644 million by 2032 with a CAGR of 4.9% during review period.

Oil-Free Dry Scroll Pumps are dry positive-displacement vacuum pumps that use an orbiting scroll and a fixed scroll to intake, compress, and discharge gas without lubricating oil in the pumping chamber, thereby reducing oil backstreaming, oil mist emissions, and sample contamination risks. A typical unit consists of a scroll compression mechanism, motor, bearing isolation structure, tip seals, cooling airflow design, inlet and exhaust ports, control electronics, and housing. The product is valued for clean vacuum generation, low noise, low vibration, compact size, and relatively long maintenance intervals. Major production bases are concentrated in Japan, the United States, Europe, and China. Key applications include mass spectrometry, gas chromatography, electron microscopy, helium leak detection, laboratory vacuum, freeze drying, medical equipment, semiconductor support systems, backing pumps for high-vacuum systems, and precision industrial process vacuum.

In 2025, global Oil-Free Dry Scroll Pumps production reached approximately 185 thousand to 205 thousand units, with mainstream FOB factory prices at around USD 4,800 to USD 6,200 per unit. Small laboratory and instrument-integrated pumps were generally priced below high-pumping-speed, corrosion-resistant, or industrial enhanced models, while European, Japanese, and U.S. brands maintained higher price levels in analytical instruments, semiconductor backing vacuum, and research equipment. Chinese and other Asian suppliers continued to improve penetration mainly in small and medium pumping speed ranges and localized equipment integration. In 2026, global

production is expected to increase to approximately 196 thousand to 218 thousand units, with the average price showing a mild downward trend while premium configurations remain resilient. Growth from 2026 to 2032 will be driven by oil-free vacuum replacement, analytical instrument expansion, semiconductor and electronics testing demand, stable medical equipment procurement, and laboratory automation upgrades.

The global Oil-Free Dry Scroll Pumps market is moving beyond its traditional base in laboratories and research equipment and is expanding into analytical instruments, medical systems, semiconductor backing vacuum, electronics manufacturing, advanced materials, and clean industrial processes. Its growth is no longer driven only by replacement of oil-sealed rotary vane pumps, but increasingly by clean vacuum requirements, lower maintenance demand, reduced emissions, and higher system stability. For users in mass spectrometry, leak detection, coating, vacuum drying, and contamination-sensitive processes, oil contamination risk, waste oil handling, downtime reduction, and environmental compliance are accelerating the shift toward oil-free pumping solutions. At the same time, instrument miniaturization, modular equipment design, and automated production lines are pushing product development toward compact size, lower noise, lower vibration, intelligent monitoring, and longer-life tip seal systems.

The main market constraints are higher upfront cost, tip seal wear, sensitivity to humid or corrosive gas streams, and competition from dry screw pumps, claw pumps, and diaphragm pumps in certain capacity ranges. Oil-Free Dry Scroll Pumps have clear advantages in small and medium pumping speed ranges, clean rough vacuum, and backing-pump applications, while large-flow industrial exhaust, strongly corrosive gas, or high-dust environments may require special configurations or alternative dry pump technologies. Future demand will be supported by analytical instrument replacement, life science laboratory expansion, semiconductor and electronics testing, stable medical equipment procurement, low-carbon manufacturing, and stronger control of oil contamination. Competitive differentiation will depend on product reliability, lifetime operating cost, customer qualification cycles, service network coverage, and integration depth with equipment manufacturers.

This report is a detailed and comprehensive analysis for global Oil-Free Dry Scroll Pumps market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Oil-Free Dry Scroll Pumps market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Dry Scroll Pumps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Dry Scroll Pumps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Dry Scroll Pumps market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Oil-Free Dry Scroll Pumps
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Oil-Free Dry Scroll Pumps market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Atlas Copco Group, Busch Group, Agilent Technologies, Inc., ANEST IWATA Corporation, ULVAC, Inc., Ingersoll Rand Inc. (Welch Vacuum), Air Squared, Scroll Laboratories, Inc., SH Scientific Co., Ltd., Dinesh High Vacuum Engineering, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## Market Segmentation

Oil-Free Dry Scroll Pumps market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Single-Stage Scroll Pump

Two-Stage Scroll Pump

Others

### Market segment by Pumping Speed Capacity

Low Capacity (Up To 20 M<sup>3</sup>/H)

Medium Capacity (20-50 M<sup>3</sup>/H)

High Capacity (Above 50 M<sup>3</sup>/H)

Others

### Market segment by Ultimate Pressure

Above 1 mbar

0.1 to 1 mbar

0.01 to 0.1 mbar

Below 0.01 mbar

## Market segment by Drive Type

Fixed Speed Ac Motor

Inverter Controlled Motor

DC Brushless Motor

Smart Integrated Drive

## Market segment by Application

Semiconductor and Electronics

Pharmaceutical and Chemical Processing

Industrial and Manufacturing

Others

## Major players covered

Atlas Copco Group

Busch Group

Agilent Technologies, Inc.

ANEST IWATA Corporation

ULVAC, Inc.

Ingersoll Rand Inc. (Welch Vacuum)

Air Squared

Scroll Laboratories, Inc.

SH Scientific Co., Ltd.

Dinesh High Vacuum Engineering

Ultrahigh Vacuum Solutions LLP

GEOWELL VACUUM CO., LTD.

Shenyang Scientific Instrument Co., Ltd., Chinese Academy Of Sciences

Ningbo Baosi Energy Equipment Co., Ltd.

Advanced Scroll Technologies (Hangzhou) Inc.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Oil-Free Dry Scroll Pumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oil-Free Dry Scroll Pumps, with price, sales quantity, revenue, and global market share of Oil-Free Dry Scroll Pumps from 2021 to 2026.

Chapter 3, the Oil-Free Dry Scroll Pumps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oil-Free Dry Scroll Pumps breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Oil-Free Dry Scroll Pumps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Oil-Free Dry Scroll Pumps.

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