Vacuum Pump - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License $4750.00
- Team License (1-7 Users) $5250.00
- Site License $6500.00
- Corporate License $8750.00

Report description:

The Vacuum Pump Market size is estimated at USD 7.56 billion in 2025, and is expected to reach USD 10.81 billion by 2030, at a CAGR of 7.41% during the forecast period (2025-2030).

A vacuum pump is a type of pump that draws gas particles from a sealed volume and leaves a partial vacuum behind. There are numerous applications for vacuum pumps across numerous industries. Vacuum pumps' adaptability in various applications is a crucial growth engine for the global vacuum pump market. Additionally, it is utilized in multiple applications, including cleaning, sealing, and others.

Key Highlights
- Vacuum pumps are used in a wide variety of industrial and scientific applications. They manufacture CRTs, vacuum tubes, electric lamps, flight instruments, print presses, glass and stone cutting factories, suction-based medical applications, electron microscopy, photolithography, uranium enrichment, and composite molding.
- Due to their versatility, vacuum pumps are used in various applications. The oil and gas industry has adopted this machine to extract and compress the gas, which significantly impacts the market. The main growth drivers for the global vacuum pump market are rising crude oil production and the discovery of newer oilfields.
- Additionally, vacuum pumps are crucial to the manufacturing of semiconductor devices. Smartphones and other consumer electronics, automotive, and other applications drive the demand for semiconductor ICs. These are brought on by technological changes, including 5G wireless and artificial intelligence. Additionally, the semiconductor industry is anticipated to invest in this machinery due to the current popularity of Internet of Things-based devices.
- Vacuum pumps also have a significant impact on the pharmaceutical sector. All manufacturing processes use these pumps, including drying, distillation, degassing, crystallization, sublimation, and filling. Each vacuum pump is a component of a vacuum

prime system used to create intermediate goods, active pharmaceutical ingredients, and large-scale pharmaceuticals. Vacuum pumps are essential components that perform essential tasks in the value chain because of these applications in various end-user industries.
- Moreover, to maintain a competitive edge in the market, many vendors continuously invest through a range of partnerships, product launches, acquisitions, and other activities. For instance, Atlas Copco completed the acquisition of HHV Pumps Pvt. Ltd in January 2022. The business develops and produces vacuum pumps and systems for use in a variety of industries. THHV Pumps is a top supplier of rotary vane pumps used in the production of refrigeration and air conditioning, vacuum pumps for the chemical and pharmaceutical industries, electrical power equipment, and general industry.
- Additionally, the market may have a profitable opportunity for growth due to growing research and development into the use of vacuum pumps in the medical industry. Additionally, vacuum pumps are expected to present growth opportunities for the market's players due to their increasing use in seawater desalination and their increasing significance in the photovoltaics value chain.
- Due to their wide-ranging applications and advantages, the market is anticipated to experience significant demand from several industries. However, improper vacuum pump installation, high power consumption, and increased product operation and maintenance costs could restrain market expansion.
- Due to supply chain and logistics disruptions brought on by the COVID-19 pandemic, the market for vacuum technologies was initially impacted. Later on, however, it saw a rise in adopting several other solutions. According to Altas Copco, order volumes for equipment also increased, primarily due to an increase in vacuum equipment demand across several regions in the semiconductor industry. The industries have begun to resume operations at levels equal to or higher than before the pandemic, so the market is anticipated to continue to expand.

Vacuum Pump Market Trends

Rotary Vacuum Pump Expected to Hold Significant Market Share

- The rotary vacuum pump is one of these types of pumps that is useful in various situations and used by professionals in multiple fields. These pumps, which use a positive displacement system, are most frequently used in the commercial, industrial, automotive, and Commercial industries. It can be used in laboratory and industrial settings as well. The fluids that are pumped most frequently in these situations are gas, oil, and water.
- The automotive sector is the one that employs rotary vane pumps the most. This kind of pump is used in the car's braking system, power steering system, automatic transmission, and supercharging system, among other places. Rotary vacuum pumps are used in the systems of different vehicle types, such as airplanes. Some air conditioners, espresso, and soft drink dispensers are other applications for this kind of pump.
- Moreover, the automotive industry is where rotary vane vacuum pumps are most frequently used, where they are essential parts of many different vehicle parts. For example, hydraulic fluid in power steering systems is pressurized using rotary vane pumps. Additionally, they are employed as fixed and variable output units in automatic transmissions. The demand for Rotary vane pumps is anticipated to increase significantly with the growth of the automotive industry. For instance, according to SIAM, domestic dispatches in India increased by 21% to 17,06,831 units in 2022-23 from 14,14,277 units in the preceding fiscal year.
- Rotating vacuum pumps can run dry with clean air or pump oil, gas, and other liquids in addition to the vacuum. The oil and gas industry is a sector that significantly boosts demand for Rotary vacuum pumps. Additionally, the market may benefit from a lucrative expansion opportunity due to growing research and development into the integration of vacuum pumps into the oil and gas industry.
- Air and gases can also be pumped out of a sealed or constrained space using rotary vacuum pumps. Food and beverage, processing, chemical and pharmaceutical, automotive, oil and gas, and a wide range of other industries all use them. Additionally, the market may benefit from a lucrative expansion opportunity due to growing research and development into the integration of

vacuum pumps into these industries.

North America to Hold Significant Market Share

- North America is expected to hold the largest market share of the Vacuum Pump Market over the forecast period, led by the United States, owing to high unmet needs, growing water scarcity, and increased demand for clean drinking water. Additionally, over the forecasted period, significant research and developments in pharmaceutical, healthcare, industrial manufacturing, and many other industries will help to meet the rising demand.
- The rising investments in end-user industries like oil and gas, chemical, and power generation significantly impact the vacuum pump market in the North American region. Oil sands are a plentiful source of oil for the region's nations, including the US and Canada. For instance, 97% of Canada's proven oil reserves are found in the oil sands, according to Natural Resource Canada.
- The processing of beverages is yet another industry that gains from using vacuum pumps. The beverage processing industry in the region is expected to offer the market plenty of opportunities due to recent technological developments and rising investment levels. For instance, Nestle announced in January 2023 that it would expand a Wisconsin factory by USD 43 million in an effort to increase production of its Boost and Carnation Breakfast Essentials ready-to-drink (RTD) products. Such investments will increase the demand for vacuum pumps in the industry.
- Additionally, the US has been one of the leaders in developing new renewable energy technologies and has pioneered several solar energy projects. In the United States, energy production is still rising quickly. For instance, ExxonMobil, one of the major oil producers in the nation, recently announced plans to increase production activity in the West Texas Permian Basin by producing roughly 1 million BPD of oil equivalent by 2024. Such factors will accelerate market expansion by giving manufacturers more opportunities to meet demand.
- Due to their widespread use in mining plants, vacuum pumps may see an increase in investment by mining companies as coal sales in the North American region increase.

Vacuum Pump Industry Overview

The vacuum pump market is fragmented due to the presence of prominent global and local players. Also, global investment in R&D in power generation infrastructure and facility upgrades in the oil and gas are the essential drivers that are giving intense rivalry among competitors. Key players are Gardner Denver Inc., Atlas Copco Group, Flowserve Corporation, etc.

- October 2023: Atlas Copco, has announced its next generation of dry claw vacuum pumps the DZS A series. This new series sets a benchmark for performance, efficiency, and reliability. Designed with the evolving needs of manufacturing industries in mind, the DZS A series offers significant advantages.
- March 2023: Fowserve Corporation has announced the release of the SIHI Boost UltraPLUS dry-running vacuum pump. The new unit is designed to reduce cycle times for batch processes by up to 50 percent or more.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

Vacuum Pump - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$4750.00
	Team License (1-7 Users)	$5250.00
	Site License	$6500.00
	Corporate License	$8750.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-02-25
		Signature