

# Global Vacuum Assist Pump 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 Vacuum Assist Pump market size was valued at US\$ 1634 million in 2025 and is forecast to a readjusted size of US\$ 2006 million by 2032 with a CAGR of 2.8% during review period.

A vacuum assist pump is an auxiliary vacuum device designed to enhance the pumping efficiency, improve the ultimate vacuum level, or shorten evacuation time of a primary vacuum system. It is typically connected in series or parallel with a main pump (such as dry pumps, rotary vane pumps, turbomolecular pumps, or Roots pumps) and operates during startup or within specific pressure ranges to optimize overall system performance.

The global production of vacuum assisted pumps is projected to reach 41.8 million units in 2025, with an average price of \$38 per unit.

Vacuum assist pumps are auxiliary units designed to enhance the pumping speed and low-pressure performance of primary vacuum systems. They are typically installed in combination with main pumps?such as roots pumps, dry pumps or liquid ring pumps?to improve overall vacuum efficiency and operational stability. Their primary function is to shorten evacuation time, extend the effective pressure range and stabilize performance under fluctuating or high-load conditions.

Upstream includes precision casting and machining suppliers, motor and drive system manufacturers, bearing and sealing component providers, control system and sensor companies, and gas handling component suppliers. Depending on the technical configuration, assist pumps may adopt roots-type, rotary vane or dry designs. Major

cost elements include precision machined components, motor systems and sealing assemblies. Because they operate in coordination with main pumps, component reliability and system compatibility are critical.

Downstream applications span semiconductor fabrication, chemical processing, pharmaceutical manufacturing, vacuum coating, photovoltaic production, food processing and laboratory vacuum systems. In semiconductor and photovoltaic industries, assist pumps enhance evacuation efficiency and ensure process stability. In chemical and pharmaceutical sectors, they handle high gas loads and condensable vapors. In vacuum coating operations, they help shorten cycle times and increase throughput. Market demand is closely linked to advanced manufacturing investment and increasing process complexity.

Industry trends focus on higher pumping efficiency, optimized coordination with primary pumps, reduced energy consumption and noise, improved corrosion resistance, and integration of intelligent monitoring and remote maintenance functions. As industrial digitalization advances, vacuum assist pumps are increasingly positioned as part of integrated vacuum system solutions rather than standalone equipment.

Gross margins typically range from 25% to 40%. Standard industrial models achieve margins of approximately 25%–32%, while semiconductor-grade or corrosion-resistant customized models may reach 32%–40%. Competitive strength centers on system integration capability, long-term operational stability and adaptability to complex process conditions. Overall market performance is strongly correlated with semiconductor capital expenditure and investment cycles in chemical and new energy industries.

This report is a detailed and comprehensive analysis for global Vacuum Assist Pump 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 Vacuum Assist Pump market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Vacuum Assist Pump market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Vacuum Assist Pump 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 Vacuum Assist Pump 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 Vacuum Assist Pump
- 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 Vacuum Assist Pump 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 Rheinmetall, Pierburg Huayu Pump Technology, Hella, Continental, Bosch, Johnson Electric, Mikuni, Ningbo Tuopu, Zhejiang Vie, Youngshin Precision, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Vacuum Assist Pump 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

Series-Connected

Parallel-Connected

## Market segment by Operating Stage

Pre-Evacuation Assist Type

Mid-Pressure Boosting Type

## Market segment by Structure

Roots-Type Assist Pump

Dry-Type Assist Pump

Rotary Vane Assist Pump

## Market segment by Application

Semiconductor Vacuum Systems

Photovoltaic and Vacuum Coating Processes

Chemical and Pharmaceutical Vacuum Reactions

Research and Laboratory Vacuum Systems

Others

## Major players covered

Rheinmetall

Pierburg Huayu Pump Technology

Hella

Continental

Bosch

Johnson Electric

Mikuni

Ningbo Tuopu

Zhejiang Vie

Youngshin Precision

YT STABLE Tech

LPR Global

VET Energy

Wenzhou Lvxiang Electric Vehicle

Ningbo Vernomax

Wenzhou Bosen

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 Vacuum Assist Pump product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vacuum Assist Pump, with price, sales quantity, revenue, and global market share of Vacuum Assist Pump from 2021 to 2026.

Chapter 3, the Vacuum Assist Pump competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vacuum Assist Pump 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 Vacuum Assist Pump 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 Vacuum Assist Pump.

Chapter 14 and 15, to describe Vacuum Assist Pump sales channel, distributors, customers, research findings and conclusion.

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