

Global Vacuum Assist Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vacuum Assist Pump market size is expected to reach \$ 2006 million by 2032, rising at a market growth of 2.8% CAGR during the forecast period (2026-2032).

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 studies the global Vacuum Assist Pump production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Vacuum Assist Pump total production and demand, 2021-2032, (Units)

Global Vacuum Assist Pump total production value, 2021-2032, (USD Million)

Global Vacuum Assist Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Vacuum Assist Pump consumption by region & country, CAGR, 2021-2032 &

(Units)

U.S. VS China: Vacuum Assist Pump domestic production, consumption, key domestic manufacturers and share

Global Vacuum Assist Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Vacuum Assist Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Vacuum Assist Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Vacuum Assist 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vacuum Assist 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 Vacuum Assist Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Assist Pump Market, Segmentation by Type:

Series-Connected

Parallel-Connected

Global Vacuum Assist Pump Market, Segmentation by Operating Stage:

Pre-Evacuation Assist Type

Mid-Pressure Boosting Type

Global Vacuum Assist Pump Market, Segmentation by Structure:

Roots-Type Assist Pump

Dry-Type Assist Pump

Rotary Vane Assist Pump

Global Vacuum Assist Pump Market, Segmentation by Application:

Semiconductor Vacuum Systems

Photovoltaic and Vacuum Coating Processes

Chemical and Pharmaceutical Vacuum Reactions

Research and Laboratory Vacuum Systems

Others

Companies Profiled:

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

Key Questions Answered:

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

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