

# Global Vacuum Generators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vacuum Generators market size is expected to reach \$ 2692 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global vacuum generator production capacity is approximately 3.5 million units, with actual output around 2.5 million units. The average selling price is about US\$720 per unit, depending on vacuum level, suction flow rate, structural type (pneumatic or electric), and integration features. Gross margins typically range from 24% to 38%, supported by widespread use in industrial automation, packaging, electronics assembly, medical equipment, and semiconductor material handling systems. A vacuum generator is a device that creates negative pressure (vacuum) for suction, gripping, or fluid extraction applications. It can be pneumatic (Venturi-based) or electrically driven (motor-pump type). Pneumatic vacuum generators operate using high-speed compressed air flow to create a pressure drop according to fluid dynamic principles. Typical industrial vacuum generators achieve vacuum levels from  $-50$  kPa to  $-95$  kPa (relative pressure). Flow rates range from 10 to 400 L/min depending on nozzle size, air supply pressure, or motor power. Response time in high-speed pick-and-place automation can be under 100 ms.

Upstream components include aluminum alloy housings, precision nozzles, compressed air fittings, brushless motors (for electric types), diaphragm or vane pump cores, pressure sensors, and control electronics. Midstream focuses on fluid channel design, energy efficiency optimization, noise reduction engineering, and embedded control development. Downstream applications cover robotic gripping systems, packaging machinery, semiconductor wafer handling, electronics assembly lines, medical suction systems, and printing equipment. Key barriers include energy efficiency performance, durability under continuous duty cycles, low-noise operation, and compatibility with

automated production lines.

The vacuum generator market benefits from sustained growth in industrial automation and robotics. As manufacturing shifts toward higher automation density, vacuum-based gripping systems remain a cost-effective and flexible solution for material handling. Pneumatic vacuum generators dominate in traditional manufacturing due to low initial cost, while electrically driven systems are gaining share in energy-efficient and low-noise applications. Technological differentiation centers on air consumption optimization, rapid pressure response, compact structural integration, and smart sensing capabilities. Although competition is intense in standardized industrial segments, high-performance applications such as semiconductor wafer transfer and medical suction systems maintain higher technical barriers and pricing power. Future growth will be supported by increased robot deployment, logistics automation, and continued electrification trends across industries.

This report studies the global Vacuum Generators production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Vacuum Generators total production and demand, 2021-2032, (K Units)

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

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

Global Vacuum Generators consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global Vacuum Generators 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 Festo, Schmalz, PARKER, EXAIR Corporation, SMC, Vaccon, VG (VACGEN), Air-Vac, IDEX, VMECA, 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 Generators market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Generators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Generators Market, Segmentation by Type:

Single-Stage Vacuum Generators

Multi-Stage Vacuum Generators

Global Vacuum Generators Market, Segmentation by Vacuum Level:

Low Vacuum (-20 to -40 kPa) Generator

Medium Vacuum (-40 to -70 kPa) Generator

High Vacuum (-70 to -85 kPa) Generator

Global Vacuum Generators Market, Segmentation by Operating Principle:

Venturi Vacuum Generator

Laval Nozzle Vacuum Generator

Multi-stage Ejector Vacuum Generator

Global Vacuum Generators Market, Segmentation by Application:

Machinery

Electronic

Packaging

Plastics

Others

Companies Profiled:

Festo

Schmalz

PARKER

EXAIR Corporation

SMC

Vaccon

VG (VACGEN)

Air-Vac

IDEX

VMECA

Gast

ANVER

Pisco

Vuototecnica

Coval

**Key Questions Answered:**

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

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