

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

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## Abstracts

The global Vacuum Control Unit market size is expected to reach \$ 2071 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A Vacuum Control Unit (VCU) is an integrated device or subsystem used to regulate, monitor, and maintain vacuum pressure within a vacuum system. It typically controls vacuum generation (via pumps or ejectors), pressure stability, and switching between vacuum and atmospheric states. The unit may include sensors, solenoid valves, pressure regulators, and electronic controllers to ensure precise vacuum levels required by automation or industrial processes such as pick-and-place, packaging, semiconductor handling, and robotics. In modern automation systems, the VCU often acts as the “control brain” of the vacuum circuit, enabling energy-efficient operation and real-time feedback control. In 2025, global Vacuum Control Unit production reached approximately 6.75 M units, with an average global market price of around US\$ 185 per unit. Annual production capacity is 7.8 M Units. Gross Profit Margin: 34%. The Vacuum Control Unit industry chain is built around three core layers: upstream pneumatic and electronic components (such as solenoid valves, pressure sensors, semiconductor chips, and aluminum housings), midstream module manufacturers integrating vacuum ejectors and control systems (SMC, Festo, Piab, Schmalz, etc.), and downstream application industries including robotics, packaging automation, logistics sorting, and semiconductor handling. The value concentration is mainly in the midstream integration layer, where companies design energy-efficient vacuum architectures and smart control logic (e.g., IO-Link, closed-loop pressure control). Downstream demand is increasingly driven by automation upgrades and labor substitution in high-throughput manufacturing environments. The Vacuum Control Unit is evolving from a simple pneumatic switching device into a smart, data-driven automation node. Its value is no longer just “generating vacuum,” but optimizing energy consumption, improving cycle stability, and enabling

predictive maintenance in robotic systems. In the next phase of industrial automation, VCUs will become more tightly integrated with robotic end-effectors and AI-based control systems, making them a critical but often underestimated component in smart factories.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Vacuum Control Unit production by Integration Level, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Vacuum Control Unit 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 SMC Corporation, Festo AG & Co. KG, Piab AB, J. Schmalz GmbH, CKD Corporation, Koganei Corporation, Parker Hannifin Corporation, Norgren (IMI Precision Engineering), Aventics (Emerson Electric Co.), Coval Vacuum Technology, 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 Control Unit market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Control Unit Market, Segmentation by Integration Level:

Standalone Vacuum Control Unit

Integrated VCU Module

Smart / IO-Link VCU

### Global Vacuum Control Unit Market, Segmentation by Control Method:

On/Off VCU

Proportional VCU

Closed-loop VCU

### Global Vacuum Control Unit Market, Segmentation by Vacuum Pressure Level:

Low Vacuum Control Unit(0 ~ -60 kPa)

Medium Vacuum Control Unit(-60 ~ -90 kPa)

High Vacuum Control Unit(-90 ~ -100 kPa)

### Global Vacuum Control Unit Market, Segmentation by Application:

Packaging

Semiconductor

Robotics

Logistics

Others

### Companies Profiled:

SMC Corporation

Festo AG & Co. KG

Piab AB

J. Schmalz GmbH

CKD Corporation

Koganei Corporation

Parker Hannifin Corporation

Norgren (IMI Precision Engineering)

Aventics (Emerson Electric Co.)

Coval Vacuum Technology

Airbest Intelligent Technology

VMECA

Zhejiang Rongde Vacuum Technology

Suzhou DVE Vacuum Technology

Ningbo Jiaerling Pneumatic Machinery

Shenzhen VPC Automation

VAT Group AG

ULVAC

Becker Pumps Corporation

Vuototecnica

Key Questions Answered:

1. How big is the global Vacuum Control Unit market?

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

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