

# Global Vacuum Grippers Supply, Demand and Key Producers, 2023-2029

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## Abstracts

Vacuum grippers use the difference between atmospheric pressure and a vacuum to lift, hold and move objects. Typically, the vacuum (or 'vacuum flow') is generated by a miniature electromechanical pump or a compressed air-driven pump. The vacuum flow must be uninterrupted to ensure that cobot can safely hold on to the object it has picked up. Vacuum grippers, also known as suction cup grippers, can be a simple yet highly effective gripping solution for a wide range of applications. With the right type of gripper in the right integration, vacuum grippers provide safe, powerful grips in collaborative robot (cobot) applications. Using the difference between a vacuum and atmospheric pressure, vacuum grippers lift, hold, and move objects. The vacuum is created by a miniature electromechanical pump or compressed air-driven pump. To ensure a cobot can safely hold an object, the vacuum flow must not be interrupted. Vacuum grippers come with added advantages such as the ability to handle a variety of item types. However, vacuum grippers come with added electricity costs to power compressed air or vacuum pumps. Additionally, vacuum grippers are sensitive to dusty conditions. Each of the several types of vacuum grippers has its own advantages and disadvantages. Vacuum grippers commonly use either a compressed air-driven pump or a miniature electromechanical pump. Compressed air-driven grippers produce four to ten times more power than their electromechanical counterparts. Electromechanical vacuum grippers, however, excel in applications demanding a high degree of mobility. While the compressed air-driven pump provides superior lifting capacity, it can also increase operating costs because of the electricity needed to run the compressor. Conversely, miniature electromechanical pumps shine in applications with a high degree of mobility; however, they often generate less power than compressed air-driven pumps. Because vacuum grippers work best in applications when the vacuum flow is uninterrupted, vacuum grippers are ideal for parts that are large enough and flat enough to create enough difference in pressure between the vacuum and atmospheric pressure. This

means parts with large, flat sides are ideal for vacuum grippers. However, excessively heavy parts may not be suitable since an enormous amount of negative pressure is needed for this. In cobot applications with light, flat parts, vacuum grippers are an effective gripping solution.

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

This report is a detailed and comprehensive analysis of the world market for Vacuum Grippers, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vacuum Grippers that contribute to its increasing demand across many markets.

The global Vacuum Grippers market size is expected to reach \$ 466.4 million by 2029, rising at a market growth of 34.6% CAGR during the forecast period (2023-2029).

The leading vacuum gripper players in the world include Schmalz, Piab AB, SMC, Onrobot and Robotiq. The top three global players by revenue account for nearly 50 per cent. Asia Pacific is the world's largest market with a market share of about 60 percent, followed by Europe and North America with about 19 percent and 15 percent, respectively. In terms of product type, electromechanical driven vacuum gripper is the largest market segment, accounting for 65% of the market share. In terms of application, manufacturing industry has the largest share, about 70%.

Highlights and key features of the study

Global Vacuum Grippers total production and demand, 2018-2029, (K Units)

Global Vacuum Grippers total production value, 2018-2029, (USD Million)

Global Vacuum Grippers production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Vacuum Grippers consumption by region & country, CAGR, 2018-2029 & (K Units)

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

Global Vacuum Grippers production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Vacuum Grippers production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Vacuum Grippers production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Vacuum Grippers 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 Schmalz, Piab AB, SMC, Onrobot, Robotiq, FIPA, Coval, Gimatic S.r.l and NIHON PISCO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vacuum Grippers 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 Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Vacuum Grippers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Vacuum Grippers Market, Segmentation by Type

Compressed Air-type Vacuum Grippers

Electromechanical-driven Vacuum Grippers

### Global Vacuum Grippers Market, Segmentation by Application

Manufacturing

Logistics

Others

### Companies Profiled:

Schmalz

Piab AB

SMC

Onrobot

Robotiq

FIPA

Coval

Gimatic S.r.l

NIHON PISCO

### Key Questions Answered

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

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