

# Global Rotary Vane Vacuum Pumps Market Size, Manufacturers, Opportunities and Forecast to 2030

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## Abstracts

### Summary

Rotary vane vacuum pumps are mechanical vacuum pumps that operate via rotary positive displacement. Pumping system consist of a housing, an eccentrically installed rotor, vanes that move radially, and an inlet and outlet. Larger pumps may have additional impeller vanes.

Rotary vane vacuum pumps create regions of low pressure by moving fluid using a rotating vane assembly in the pumping chamber. Typically there are two or more rotating vanes that move the gas or fluid from inlet to outlet. Rotary vane pumps can be employed universally throughout the entire low and medium vacuum ranges.

As the rotor turns, the ends of the vane barely touch the housing, creating a seal from inlet to outlet. The inlet and outlet are often perpendicular, however for vacuum service applications two inlets may be used; one for air supply and the other for the pumped media. The rotor and vanes divide the working chamber into two separate spaces having variable volumes. As the rotor turns, gas flows into the enlarging suction chamber until it is sealed off by the second vane. The enclosed gas is compressed until the outlet valve opens against atmospheric pressure, pushing gas molecules out the port.

This report mainly introduces two types of rotary vane vacuum pumps: single-stage and two-stage. Dual stage vacuum pumps compress the gas twice before exhausting it to atmosphere and therefore generate a lower ultimate vacuum pressure. Single stage pumps only compress the gas once delivering a higher pressure, but less heat.

According to APO Research, The global Rotary Vane Vacuum Pumps market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

North American market for Rotary Vane Vacuum Pumps is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Rotary Vane Vacuum Pumps is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Rotary Vane Vacuum Pumps is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Rotary Vane Vacuum Pumps include Atlas Copco, Busch, Gardner Denver, Pfeiffer Vacuum, Tuthill, Becker Pumps, Agilent, Gast(IDEX) and ULVAC, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Rotary Vane Vacuum Pumps, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Rotary Vane Vacuum Pumps.

The Rotary Vane Vacuum Pumps market size, estimations, and forecasts are provided in terms of sales volume (K Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Rotary Vane Vacuum Pumps market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Atlas Copco

Busch

Gardner Denver

Pfeiffer Vacuum

Tuthill

Becker Pumps

Agilent

Gast(IDEX)

ULVAC

Value Specializes

Dekker Vacuum Technologies

Osaka Vacuum

Hokaido Vacuum Technology

Wenling Tingwei

## Rotary Vane Vacuum Pumps segment by Type

Single Stage Rotary Vane Vacuum Pumps

Two Stage Rotary Vane Vacuum Pumps

## Rotary Vane Vacuum Pumps segment by Application

Semiconductor and Electronic Industry

Chemical Industry

Laboratory Research

Food Industry

Machinery Industry

Other

## Rotary Vane Vacuum Pumps Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

## UAE

### Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Rotary Vane Vacuum Pumps market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Rotary Vane Vacuum Pumps and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Rotary Vane Vacuum Pumps.
7. This report helps stakeholders to identify some of the key players in the market and

understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Detailed analysis of Rotary Vane Vacuum Pumps manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Rotary Vane Vacuum Pumps in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Rotary Vane Vacuum Pumps Market Size Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Rotary Vane Vacuum Pumps Sales Estimates and Forecasts (2019-2030)
- 1.3 Rotary Vane Vacuum Pumps Market by Type
  - 1.3.1 Single Stage Rotary Vane Vacuum Pumps
  - 1.3.2 Two Stage Rotary Vane Vacuum Pumps
- 1.4 Global Rotary Vane Vacuum Pumps Market Size by Type
  - 1.4.1 Global Rotary Vane Vacuum Pumps Market Size Overview by Type (2019-2030)
  - 1.4.2 Global Rotary Vane Vacuum Pumps Historic Market Size Review by Type (2019-2024)
  - 1.4.3 Global Rotary Vane Vacuum Pumps Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
  - 1.5.1 North America Rotary Vane Vacuum Pumps Sales Breakdown by Type (2019-2024)
  - 1.5.2 Europe Rotary Vane Vacuum Pumps Sales Breakdown by Type (2019-2024)
  - 1.5.3 Asia-Pacific Rotary Vane Vacuum Pumps Sales Breakdown by Type (2019-2024)
  - 1.5.4 Latin America Rotary Vane Vacuum Pumps Sales Breakdown by Type (2019-2024)
  - 1.5.5 Middle East and Africa Rotary Vane Vacuum Pumps Sales Breakdown by Type (2019-2024)

### 2 GLOBAL MARKET DYNAMICS

- 2.1 Rotary Vane Vacuum Pumps Industry Trends
- 2.2 Rotary Vane Vacuum Pumps Industry Drivers
- 2.3 Rotary Vane Vacuum Pumps Industry Opportunities and Challenges
- 2.4 Rotary Vane Vacuum Pumps Industry Restraints

### 3 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Rotary Vane Vacuum Pumps Revenue (2019-2024)



- 3.2 Global Top Players by Rotary Vane Vacuum Pumps Sales (2019-2024)
- 3.3 Global Top Players by Rotary Vane Vacuum Pumps Price (2019-2024)
- 3.4 Global Rotary Vane Vacuum Pumps Industry Company Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Rotary Vane Vacuum Pumps Key Company Manufacturing Sites & Headquarters
- 3.6 Global Rotary Vane Vacuum Pumps Company, Product Type & Application
- 3.7 Global Rotary Vane Vacuum Pumps Company Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global Rotary Vane Vacuum Pumps Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 Rotary Vane Vacuum Pumps Players Market Share by Revenue in 2023
  - 3.8.3 2023 Rotary Vane Vacuum Pumps Tier 1, Tier 2, and Tier

## **4 ROTARY VANE VACUUM PUMPS REGIONAL STATUS AND OUTLOOK**

- 4.1 Global Rotary Vane Vacuum Pumps Market Size and CAGR by Region: 2019 VS 2023 VS 2030
- 4.2 Global Rotary Vane Vacuum Pumps Historic Market Size by Region
  - 4.2.1 Global Rotary Vane Vacuum Pumps Sales in Volume by Region (2019-2024)
  - 4.2.2 Global Rotary Vane Vacuum Pumps Sales in Value by Region (2019-2024)
  - 4.2.3 Global Rotary Vane Vacuum Pumps Sales (Volume & Value), Price and Gross Margin (2019-2024)
- 4.3 Global Rotary Vane Vacuum Pumps Forecasted Market Size by Region
  - 4.3.1 Global Rotary Vane Vacuum Pumps Sales in Volume by Region (2025-2030)
  - 4.3.2 Global Rotary Vane Vacuum Pumps Sales in Value by Region (2025-2030)
  - 4.3.3 Global Rotary Vane Vacuum Pumps Sales (Volume & Value), Price and Gross Margin (2025-2030)

## **5 ROTARY VANE VACUUM PUMPS BY APPLICATION**

- 5.1 Rotary Vane Vacuum Pumps Market by Application
  - 5.1.1 Semiconductor and Electronic Industry
  - 5.1.2 Chemical Industry
  - 5.1.3 Laboratory Research
  - 5.1.4 Food Industry
  - 5.1.5 Machinery Industry
  - 5.1.6 Other
- 5.2 Global Rotary Vane Vacuum Pumps Market Size by Application

- 5.2.1 Global Rotary Vane Vacuum Pumps Market Size Overview by Application (2019-2030)
- 5.2.2 Global Rotary Vane Vacuum Pumps Historic Market Size Review by Application (2019-2024)
- 5.2.3 Global Rotary Vane Vacuum Pumps Forecasted Market Size by Application (2025-2030)
- 5.3 Key Regions Market Size by Application
  - 5.3.1 North America Rotary Vane Vacuum Pumps Sales Breakdown by Application (2019-2024)
  - 5.3.2 Europe Rotary Vane Vacuum Pumps Sales Breakdown by Application (2019-2024)
  - 5.3.3 Asia-Pacific Rotary Vane Vacuum Pumps Sales Breakdown by Application (2019-2024)
  - 5.3.4 Latin America Rotary Vane Vacuum Pumps Sales Breakdown by Application (2019-2024)
  - 5.3.5 Middle East and Africa Rotary Vane Vacuum Pumps Sales Breakdown by Application (2019-2024)

## **6 COMPANY PROFILES**

- 6.1 Atlas Copco
  - 6.1.1 Atlas Copco Company Information
  - 6.1.2 Atlas Copco Business Overview
  - 6.1.3 Atlas Copco Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.1.4 Atlas Copco Rotary Vane Vacuum Pumps Product Portfolio
  - 6.1.5 Atlas Copco Recent Developments
- 6.2 Busch
  - 6.2.1 Busch Company Information
  - 6.2.2 Busch Business Overview
  - 6.2.3 Busch Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.2.4 Busch Rotary Vane Vacuum Pumps Product Portfolio
  - 6.2.5 Busch Recent Developments
- 6.3 Gardner Denver
  - 6.3.1 Gardner Denver Company Information
  - 6.3.2 Gardner Denver Business Overview
  - 6.3.3 Gardner Denver Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)

- 6.3.4 Gardner Denver Rotary Vane Vacuum Pumps Product Portfolio
- 6.3.5 Gardner Denver Recent Developments
- 6.4 Pfeiffer Vacuum
  - 6.4.1 Pfeiffer Vacuum Company Information
  - 6.4.2 Pfeiffer Vacuum Business Overview
  - 6.4.3 Pfeiffer Vacuum Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.4.4 Pfeiffer Vacuum Rotary Vane Vacuum Pumps Product Portfolio
  - 6.4.5 Pfeiffer Vacuum Recent Developments
- 6.5 Tuthill
  - 6.5.1 Tuthill Company Information
  - 6.5.2 Tuthill Business Overview
  - 6.5.3 Tuthill Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.5.4 Tuthill Rotary Vane Vacuum Pumps Product Portfolio
  - 6.5.5 Tuthill Recent Developments
- 6.6 Becker Pumps
  - 6.6.1 Becker Pumps Company Information
  - 6.6.2 Becker Pumps Business Overview
  - 6.6.3 Becker Pumps Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.6.4 Becker Pumps Rotary Vane Vacuum Pumps Product Portfolio
  - 6.6.5 Becker Pumps Recent Developments
- 6.7 Agilent
  - 6.7.1 Agilent Company Information
  - 6.7.2 Agilent Business Overview
  - 6.7.3 Agilent Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.7.4 Agilent Rotary Vane Vacuum Pumps Product Portfolio
  - 6.7.5 Agilent Recent Developments
- 6.8 Gast(IDEX)
  - 6.8.1 Gast(IDEX) Company Information
  - 6.8.2 Gast(IDEX) Business Overview
  - 6.8.3 Gast(IDEX) Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.8.4 Gast(IDEX) Rotary Vane Vacuum Pumps Product Portfolio
  - 6.8.5 Gast(IDEX) Recent Developments
- 6.9 ULVAC
  - 6.9.1 ULVAC Company Information

- 6.9.2 ULVAC Business Overview
- 6.9.3 ULVAC Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
- 6.9.4 ULVAC Rotary Vane Vacuum Pumps Product Portfolio
- 6.9.5 ULVAC Recent Developments
- 6.10 Value Specializes
  - 6.10.1 Value Specializes Company Information
  - 6.10.2 Value Specializes Business Overview
  - 6.10.3 Value Specializes Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.10.4 Value Specializes Rotary Vane Vacuum Pumps Product Portfolio
  - 6.10.5 Value Specializes Recent Developments
- 6.11 Dekker Vacuum Technologies
  - 6.11.1 Dekker Vacuum Technologies Company Information
  - 6.11.2 Dekker Vacuum Technologies Business Overview
  - 6.11.3 Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.11.4 Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Product Portfolio
  - 6.11.5 Dekker Vacuum Technologies Recent Developments
- 6.12 Osaka Vacuum
  - 6.12.1 Osaka Vacuum Company Information
  - 6.12.2 Osaka Vacuum Business Overview
  - 6.12.3 Osaka Vacuum Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.12.4 Osaka Vacuum Rotary Vane Vacuum Pumps Product Portfolio
  - 6.12.5 Osaka Vacuum Recent Developments
- 6.13 Hokaido Vacuum Technology
  - 6.13.1 Hokaido Vacuum Technology Company Information
  - 6.13.2 Hokaido Vacuum Technology Business Overview
  - 6.13.3 Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.13.4 Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Product Portfolio
  - 6.13.5 Hokaido Vacuum Technology Recent Developments
- 6.14 Wenling Tingwei
  - 6.14.1 Wenling Tingwei Company Information
  - 6.14.2 Wenling Tingwei Business Overview
  - 6.14.3 Wenling Tingwei Rotary Vane Vacuum Pumps Sales, Revenue and Gross Margin (2019-2024)
  - 6.14.4 Wenling Tingwei Rotary Vane Vacuum Pumps Product Portfolio

#### 6.14.5 Wenling Tingwei Recent Developments

### **7 NORTH AMERICA BY COUNTRY**

#### 7.1 North America Rotary Vane Vacuum Pumps Sales by Country

7.1.1 North America Rotary Vane Vacuum Pumps Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.1.2 North America Rotary Vane Vacuum Pumps Sales by Country (2019-2024)

7.1.3 North America Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030)

#### 7.2 North America Rotary Vane Vacuum Pumps Market Size by Country

7.2.1 North America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Rotary Vane Vacuum Pumps Market Size by Country (2019-2024)

7.2.3 North America Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030)

### **8 EUROPE BY COUNTRY**

#### 8.1 Europe Rotary Vane Vacuum Pumps Sales by Country

8.1.1 Europe Rotary Vane Vacuum Pumps Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Rotary Vane Vacuum Pumps Sales by Country (2019-2024)

8.1.3 Europe Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030)

#### 8.2 Europe Rotary Vane Vacuum Pumps Market Size by Country

8.2.1 Europe Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Rotary Vane Vacuum Pumps Market Size by Country (2019-2024)

8.2.3 Europe Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030)

### **9 ASIA-PACIFIC BY COUNTRY**

#### 9.1 Asia-Pacific Rotary Vane Vacuum Pumps Sales by Country

9.1.1 Asia-Pacific Rotary Vane Vacuum Pumps Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Rotary Vane Vacuum Pumps Sales by Country (2019-2024)

9.1.3 Asia-Pacific Rotary Vane Vacuum Pumps Sales Forecast by Country

(2025-2030)

## 9.2 Asia-Pacific Rotary Vane Vacuum Pumps Market Size by Country

9.2.1 Asia-Pacific Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Rotary Vane Vacuum Pumps Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030)

## 10 LATIN AMERICA BY COUNTRY

### 10.1 Latin America Rotary Vane Vacuum Pumps Sales by Country

10.1.1 Latin America Rotary Vane Vacuum Pumps Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.1.2 Latin America Rotary Vane Vacuum Pumps Sales by Country (2019-2024)

10.1.3 Latin America Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030)

### 10.2 Latin America Rotary Vane Vacuum Pumps Market Size by Country

10.2.1 Latin America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America Rotary Vane Vacuum Pumps Market Size by Country (2019-2024)

10.2.3 Latin America Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030)

## 11 MIDDLE EAST AND AFRICA BY COUNTRY

### 11.1 Middle East and Africa Rotary Vane Vacuum Pumps Sales by Country

11.1.1 Middle East and Africa Rotary Vane Vacuum Pumps Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa Rotary Vane Vacuum Pumps Sales by Country (2019-2024)

11.1.3 Middle East and Africa Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030)

### 11.2 Middle East and Africa Rotary Vane Vacuum Pumps Market Size by Country

11.2.1 Middle East and Africa Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa Rotary Vane Vacuum Pumps Market Size by Country (2019-2024)

11.2.3 Middle East and Africa Rotary Vane Vacuum Pumps Market Size Forecast by

Country (2025-2030)

## **12 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

### 12.1 Rotary Vane Vacuum Pumps Value Chain Analysis

12.1.1 Rotary Vane Vacuum Pumps Key Raw Materials

12.1.2 Key Raw Materials Price

12.1.3 Raw Materials Key Suppliers

12.1.4 Manufacturing Cost Structure

12.1.5 Rotary Vane Vacuum Pumps Production Mode & Process

### 12.2 Rotary Vane Vacuum Pumps Sales Channels Analysis

12.2.1 Direct Comparison with Distribution Share

12.2.2 Rotary Vane Vacuum Pumps Distributors

12.2.3 Rotary Vane Vacuum Pumps Customers

## **13 CONCLUDING INSIGHTS**

## **14 APPENDIX**

14.1 Reasons for Doing This Study

14.2 Research Methodology

14.3 Research Process

14.4 Authors List of This Report

14.5 Data Source

14.5.1 Secondary Sources

14.5.2 Primary Sources

14.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Major Company of Single Stage Rotary Vane Vacuum Pumps

Table 2. Major Company of Two Stage Rotary Vane Vacuum Pumps

Table 3. Global Rotary Vane Vacuum Pumps Sales by Type (2019 VS 2023 VS 2030) & (US\$ Million)

Table 4. Global Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)

Table 5. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type (2019-2024)

Table 6. Global Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)

Table 7. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Type (2019-2024)

Table 8. Global Rotary Vane Vacuum Pumps Price by Type (2019-2024) & (USD/Unit)

Table 9. Global Rotary Vane Vacuum Pumps Sales by Type (2025-2030) & (K Units)

Table 10. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type (2025-2030)

Table 11. Global Rotary Vane Vacuum Pumps Sales by Type (2025-2030) & (US\$ Million)

Table 12. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Type (2025-2030)

Table 13. Global Rotary Vane Vacuum Pumps Price by Type (2025-2030) & (USD/Unit)

Table 14. North America Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)

Table 15. North America Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)

Table 16. Europe Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)

Table 17. Europe Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)

Table 18. Asia-Pacific Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)

Table 19. Asia-Pacific Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)

Table 20. Latin America Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)

Table 21. Latin America Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)



- Table 22. Middle East and Africa Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (K Units)
- Table 23. Middle East and Africa Rotary Vane Vacuum Pumps Sales by Type (2019-2024) & (US\$ Million)
- Table 24. Rotary Vane Vacuum Pumps Industry Trends
- Table 25. Rotary Vane Vacuum Pumps Industry Drivers
- Table 26. Rotary Vane Vacuum Pumps Industry Opportunities and Challenges
- Table 27. Rotary Vane Vacuum Pumps Industry Restraints
- Table 28. Global Rotary Vane Vacuum Pumps Sales Revenue by Company (US\$ Million) & (2019-2024)
- Table 29. Global Rotary Vane Vacuum Pumps Revenue Market Share by Company (2019-2024)
- Table 30. Global Rotary Vane Vacuum Pumps Sales by Company (2019-2024) & (K Units)
- Table 31. Global Rotary Vane Vacuum Pumps Sales Share by Company (2019-2024)
- Table 32. Global Rotary Vane Vacuum Pumps Market Price by Company (2019-2024) & (USD/Unit)
- Table 33. Global Rotary Vane Vacuum Pumps Industry Company Ranking, 2022 VS 2023 VS 2024
- Table 34. Global Rotary Vane Vacuum Pumps Key Company Manufacturing Sites & Headquarters
- Table 35. Global Rotary Vane Vacuum Pumps Company, Product Type & Application
- Table 36. Global Rotary Vane Vacuum Pumps Company Commercialization Time
- Table 37. Global Company Market Concentration Ratio (CR5 and HHI)
- Table 38. Global Rotary Vane Vacuum Pumps by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)
- Table 39. Global Rotary Vane Vacuum Pumps Market Size Comparison by Region (US\$ Million): 2019 VS 2023 VS 2030
- Table 40. Global Rotary Vane Vacuum Pumps Sales by Region (2019-2024) & (K Units)
- Table 41. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by Region (2019-2024)
- Table 42. Global Rotary Vane Vacuum Pumps Sales by Region (2019-2024) & (US\$ Million)
- Table 43. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Region (2019-2024)
- Table 44. Global Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 45. Global Rotary Vane Vacuum Pumps Sales by Region (2025-2030) & (K Units)
- Table 46. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by

Region (2025-2030)

Table 47. Global Rotary Vane Vacuum Pumps Sales by Region (2025-2030) & (US\$ Million)

Table 48. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Region (2025-2030)

Table 49. Global Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2025-2030)

Table 50. Global Rotary Vane Vacuum Pumps Sales by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 51. Global Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 52. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by Application (2019-2024)

Table 53. Global Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 54. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Application (2019-2024)

Table 55. Global Rotary Vane Vacuum Pumps Price by Application (2019-2024) & (USD/Unit)

Table 56. Global Rotary Vane Vacuum Pumps Sales by Application (2025-2030) & (K Units)

Table 57. Global Rotary Vane Vacuum Pumps Sales Market Share in Volume by Application (2025-2030)

Table 58. Global Rotary Vane Vacuum Pumps Sales by Application (2025-2030) & (US\$ Million)

Table 59. Global Rotary Vane Vacuum Pumps Sales Market Share in Value by Application (2025-2030)

Table 60. Global Rotary Vane Vacuum Pumps Price by Application (2025-2030) & (USD/Unit)

Table 61. North America Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 62. North America Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 63. Europe Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 64. Europe Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 65. Asia-Pacific Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 66. Asia-Pacific Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 67. Latin America Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 68. Latin America Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 69. Middle East and Africa Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (K Units)

Table 70. Middle East and Africa Rotary Vane Vacuum Pumps Sales by Application (2019-2024) & (US\$ Million)

Table 71. Atlas Copco Company Information

Table 72. Atlas Copco Business Overview

Table 73. Atlas Copco Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. Atlas Copco Rotary Vane Vacuum Pumps Product Portfolio

Table 75. Atlas Copco Recent Development

Table 76. Busch Company Information

Table 77. Busch Business Overview

Table 78. Busch Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 79. Busch Rotary Vane Vacuum Pumps Product Portfolio

Table 80. Busch Recent Development

Table 81. Gardner Denver Company Information

Table 82. Gardner Denver Business Overview

Table 83. Gardner Denver Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 84. Gardner Denver Rotary Vane Vacuum Pumps Product Portfolio

Table 85. Gardner Denver Recent Development

Table 86. Pfeiffer Vacuum Company Information

Table 87. Pfeiffer Vacuum Business Overview

Table 88. Pfeiffer Vacuum Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 89. Pfeiffer Vacuum Rotary Vane Vacuum Pumps Product Portfolio

Table 90. Pfeiffer Vacuum Recent Development

Table 91. Tuthill Company Information

Table 92. Tuthill Business Overview

Table 93. Tuthill Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 94. Tuthill Rotary Vane Vacuum Pumps Product Portfolio

- Table 95. Tuthill Recent Development
- Table 96. Becker Pumps Company Information
- Table 97. Becker Pumps Business Overview
- Table 98. Becker Pumps Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 99. Becker Pumps Rotary Vane Vacuum Pumps Product Portfolio
- Table 100. Becker Pumps Recent Development
- Table 101. Agilent Company Information
- Table 102. Agilent Business Overview
- Table 103. Agilent Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 104. Agilent Rotary Vane Vacuum Pumps Product Portfolio
- Table 105. Agilent Recent Development
- Table 106. Gast(IDEX) Company Information
- Table 107. Gast(IDEX) Business Overview
- Table 108. Gast(IDEX) Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 109. Gast(IDEX) Rotary Vane Vacuum Pumps Product Portfolio
- Table 110. Gast(IDEX) Recent Development
- Table 111. ULVAC Company Information
- Table 112. ULVAC Business Overview
- Table 113. ULVAC Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 114. ULVAC Rotary Vane Vacuum Pumps Product Portfolio
- Table 115. ULVAC Recent Development
- Table 116. Value Specializes Company Information
- Table 117. Value Specializes Business Overview
- Table 118. Value Specializes Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 119. Value Specializes Rotary Vane Vacuum Pumps Product Portfolio
- Table 120. Value Specializes Recent Development
- Table 121. Dekker Vacuum Technologies Company Information
- Table 122. Dekker Vacuum Technologies Business Overview
- Table 123. Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 124. Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Product Portfolio
- Table 125. Dekker Vacuum Technologies Recent Development
- Table 126. Osaka Vacuum Company Information

- Table 127. Osaka Vacuum Business Overview
- Table 128. Osaka Vacuum Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 129. Osaka Vacuum Rotary Vane Vacuum Pumps Product Portfolio
- Table 130. Osaka Vacuum Recent Development
- Table 131. Hokaido Vacuum Technology Company Information
- Table 132. Hokaido Vacuum Technology Business Overview
- Table 133. Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 134. Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Product Portfolio
- Table 135. Hokaido Vacuum Technology Recent Development
- Table 136. Wenling Tingwei Company Information
- Table 137. Wenling Tingwei Business Overview
- Table 138. Wenling Tingwei Rotary Vane Vacuum Pumps Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 139. Wenling Tingwei Rotary Vane Vacuum Pumps Product Portfolio
- Table 140. Wenling Tingwei Recent Development
- Table 141. North America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (K Units): 2019 VS 2023 VS 2030
- Table 142. North America Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)
- Table 143. North America Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)
- Table 144. North America Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030) & (K Units)
- Table 145. North America Rotary Vane Vacuum Pumps Sales Market Share Forecast by Country (2025-2030)
- Table 146. North America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030
- Table 147. North America Rotary Vane Vacuum Pumps Market Size by Country (2019-2024) & (US\$ Million)
- Table 148. North America Rotary Vane Vacuum Pumps Market Share by Country (2019-2024)
- Table 149. North America Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030) & (US\$ Million)
- Table 150. North America Rotary Vane Vacuum Pumps Market Share Forecast by Country (2025-2030)
- Table 151. Europe Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (K Units): 2019 VS 2023 VS 2030

Table 152. Europe Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)

Table 153. Europe Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)

Table 154. Europe Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030) & (K Units)

Table 155. Europe Rotary Vane Vacuum Pumps Sales Market Share Forecast by Country (2025-2030)

Table 156. Europe Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 157. Europe Rotary Vane Vacuum Pumps Market Size by Country (2019-2024) & (US\$ Million)

Table 158. Europe Rotary Vane Vacuum Pumps Market Share by Country (2019-2024)

Table 159. Europe Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 160. Europe Rotary Vane Vacuum Pumps Market Share Forecast by Country (2025-2030)

Table 161. Asia-Pacific Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (K Units): 2019 VS 2023 VS 2030

Table 162. Asia-Pacific Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)

Table 163. Asia-Pacific Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)

Table 164. Asia-Pacific Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030) & (K Units)

Table 165. Asia-Pacific Rotary Vane Vacuum Pumps Sales Market Share Forecast by Country (2025-2030)

Table 166. Asia-Pacific Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 167. Asia-Pacific Rotary Vane Vacuum Pumps Market Size by Country (2019-2024) & (US\$ Million)

Table 168. Asia-Pacific Rotary Vane Vacuum Pumps Market Share by Country (2019-2024)

Table 169. Asia-Pacific Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 170. Asia-Pacific Rotary Vane Vacuum Pumps Market Share Forecast by Country (2025-2030)

Table 171. Latin America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (K Units): 2019 VS 2023 VS 2030

Table 172. Latin America Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)

Table 173. Latin America Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)

Table 174. Latin America Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030) & (K Units)

Table 175. Latin America Rotary Vane Vacuum Pumps Sales Market Share Forecast by Country (2025-2030)

Table 176. Latin America Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 177. Latin America Rotary Vane Vacuum Pumps Market Size by Country (2019-2024) & (US\$ Million)

Table 178. Latin America Rotary Vane Vacuum Pumps Market Share by Country (2019-2024)

Table 179. Latin America Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 180. Latin America Rotary Vane Vacuum Pumps Market Share Forecast by Country (2025-2030)

Table 181. Middle East and Africa Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (K Units): 2019 VS 2023 VS 2030

Table 182. Middle East and Africa Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)

Table 183. Middle East and Africa Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)

Table 184. Middle East and Africa Rotary Vane Vacuum Pumps Sales Forecast by Country (2025-2030) & (K Units)

Table 185. Middle East and Africa Rotary Vane Vacuum Pumps Sales Market Share Forecast by Country (2025-2030)

Table 186. Middle East and Africa Rotary Vane Vacuum Pumps Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 187. Middle East and Africa Rotary Vane Vacuum Pumps Market Size by Country (2019-2024) & (US\$ Million)

Table 188. Middle East and Africa Rotary Vane Vacuum Pumps Market Share by Country (2019-2024)

Table 189. Middle East and Africa Rotary Vane Vacuum Pumps Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 190. Middle East and Africa Rotary Vane Vacuum Pumps Market Share Forecast by Country (2025-2030)

Table 191. Key Raw Materials

Table 192. Raw Materials Key Suppliers

Table 193. Rotary Vane Vacuum Pumps Distributors List

Table 194. Rotary Vane Vacuum Pumps Customers List

Table 195. Research Programs/Design for This Report

Table 196. Authors List of This Report

Table 197. Secondary Sources

Table 198. Primary Sources



## List Of Figures

### LIST OF FIGURES

- Figure 1. Rotary Vane Vacuum Pumps Product Picture
- Figure 2. Global Rotary Vane Vacuum Pumps Market Size (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Rotary Vane Vacuum Pumps Market Size (2019-2030) & (US\$ Million)
- Figure 4. Global Rotary Vane Vacuum Pumps Sales (2019-2030) & (K Units)
- Figure 5. Product Picture of Single Stage Rotary Vane Vacuum Pumps
- Figure 6. Global Single Stage Rotary Vane Vacuum Pumps Sales YoY Growth (2019-2030) & (K Units)
- Figure 7. Product Picture of Two Stage Rotary Vane Vacuum Pumps
- Figure 8. Global Two Stage Rotary Vane Vacuum Pumps Sales YoY Growth (2019-2030) & (K Units)
- Figure 9. Global Rotary Vane Vacuum Pumps Market Size Overview by Type (2019-2030) & (US\$ Million)
- Figure 10. Global Rotary Vane Vacuum Pumps Market Share by Type 2023 VS 2030
- Figure 11. North America Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type in 2023
- Figure 12. North America Rotary Vane Vacuum Pumps Sales Market Share in Value by Type in 2023
- Figure 13. Europe Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type in 2023
- Figure 14. Europe Rotary Vane Vacuum Pumps Sales Market Share in Value by Type in 2023
- Figure 15. Asia-Pacific Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type in 2023
- Figure 16. Asia-Pacific Rotary Vane Vacuum Pumps Sales Market Share in Value by Type in 2023
- Figure 17. Latin America Rotary Vane Vacuum Pumps Sales Market Share in Volume by Type in 2023
- Figure 18. Latin America Rotary Vane Vacuum Pumps Sales Market Share in Value by Type in 2023
- Figure 19. Middle East and Africa Rotary Vane Vacuu

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