

Global Rotary Vane Vacuum Pumps Market Size, Manufacturers, Growth Analysis Industry 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 is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

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.

The China 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.

This report presents an overview of global market for Rotary Vane Vacuum Pumps, sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Rotary Vane Vacuum Pumps, also provides the sales of main regions and countries. Of the upcoming market potential for Rotary Vane Vacuum Pumps, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Rotary Vane Vacuum Pumps sales, revenue, market share

and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Rotary Vane Vacuum Pumps market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Rotary Vane Vacuum Pumps sales, projected growth trends, production technology, application and end-user industry.

Rotary Vane Vacuum Pumps segment by Company

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

Study Objectives

1. To analyze and research the global Rotary Vane Vacuum Pumps status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Rotary Vane Vacuum Pumps market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Rotary Vane Vacuum Pumps significant trends, drivers, influence factors in global and regions.
6. To analyze Rotary Vane Vacuum Pumps competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

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 sales 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: Provides an overview of the Rotary Vane Vacuum Pumps market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Rotary Vane Vacuum Pumps industry.

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

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value 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 market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Rotary Vane Vacuum Pumps in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: 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 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 1.2.2 Global Rotary Vane Vacuum Pumps Sales Volume (2019-2030)
 - 1.2.3 Global Rotary Vane Vacuum Pumps Sales Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 ROTARY VANE VACUUM PUMPS 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 ROTARY VANE VACUUM PUMPS MARKET BY COMPANY

- 3.1 Global Rotary Vane Vacuum Pumps Company Revenue Ranking in 2023
- 3.2 Global Rotary Vane Vacuum Pumps Revenue by Company (2019-2024)
- 3.3 Global Rotary Vane Vacuum Pumps Sales Volume by Company (2019-2024)
- 3.4 Global Rotary Vane Vacuum Pumps Average Price by Company (2019-2024)
- 3.5 Global Rotary Vane Vacuum Pumps Company Ranking, 2022 VS 2023 VS 2024
- 3.6 Global Rotary Vane Vacuum Pumps Company Manufacturing Base & Headquarters
- 3.7 Global Rotary Vane Vacuum Pumps Company, Product Type & Application
- 3.8 Global Rotary Vane Vacuum Pumps Company Commercialization Time
- 3.9 Market Competitive Analysis
 - 3.9.1 Global Rotary Vane Vacuum Pumps Market CR5 and HHI
 - 3.9.2 Global Top 5 and 10 Company Market Share by Revenue in 2023
 - 3.9.3 2023 Rotary Vane Vacuum Pumps Tier 1, Tier 2, and Tier
- 3.10 Mergers & Acquisitions, Expansion

4 ROTARY VANE VACUUM PUMPS MARKET BY TYPE

- 4.1 Rotary Vane Vacuum Pumps Type Introduction
 - 4.1.1 Single Stage Rotary Vane Vacuum Pumps

- 4.1.2 Two Stage Rotary Vane Vacuum Pumps
- 4.2 Global Rotary Vane Vacuum Pumps Sales Volume by Type
 - 4.2.1 Global Rotary Vane Vacuum Pumps Sales Volume by Type (2019 VS 2023 VS 2030)
 - 4.2.2 Global Rotary Vane Vacuum Pumps Sales Volume by Type (2019-2030)
 - 4.2.3 Global Rotary Vane Vacuum Pumps Sales Volume Share by Type (2019-2030)
- 4.3 Global Rotary Vane Vacuum Pumps Sales Value by Type
 - 4.3.1 Global Rotary Vane Vacuum Pumps Sales Value by Type (2019 VS 2023 VS 2030)
 - 4.3.2 Global Rotary Vane Vacuum Pumps Sales Value by Type (2019-2030)
 - 4.3.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Type (2019-2030)

5 ROTARY VANE VACUUM PUMPS MARKET BY APPLICATION

- 5.1 Rotary Vane Vacuum Pumps Application Introduction
 - 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 Sales Volume by Application
 - 5.2.1 Global Rotary Vane Vacuum Pumps Sales Volume by Application (2019 VS 2023 VS 2030)
 - 5.2.2 Global Rotary Vane Vacuum Pumps Sales Volume by Application (2019-2030)
 - 5.2.3 Global Rotary Vane Vacuum Pumps Sales Volume Share by Application (2019-2030)
- 5.3 Global Rotary Vane Vacuum Pumps Sales Value by Application
 - 5.3.1 Global Rotary Vane Vacuum Pumps Sales Value by Application (2019 VS 2023 VS 2030)
 - 5.3.2 Global Rotary Vane Vacuum Pumps Sales Value by Application (2019-2030)
 - 5.3.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application (2019-2030)

6 ROTARY VANE VACUUM PUMPS MARKET BY REGION

- 6.1 Global Rotary Vane Vacuum Pumps Sales by Region: 2019 VS 2023 VS 2030
- 6.2 Global Rotary Vane Vacuum Pumps Sales by Region (2019-2030)
 - 6.2.1 Global Rotary Vane Vacuum Pumps Sales by Region: 2019-2024

- 6.2.2 Global Rotary Vane Vacuum Pumps Sales by Region (2025-2030)
- 6.3 Global Rotary Vane Vacuum Pumps Sales Value by Region: 2019 VS 2023 VS 2030
- 6.4 Global Rotary Vane Vacuum Pumps Sales Value by Region (2019-2030)
 - 6.4.1 Global Rotary Vane Vacuum Pumps Sales Value by Region: 2019-2024
 - 6.4.2 Global Rotary Vane Vacuum Pumps Sales Value by Region (2025-2030)
- 6.5 Global Rotary Vane Vacuum Pumps Market Price Analysis by Region (2019-2024)
- 6.6 North America
 - 6.6.1 North America Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 6.6.2 North America Rotary Vane Vacuum Pumps Sales Value Share by Country, 2023 VS 2030
- 6.7 Europe
 - 6.7.1 Europe Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 6.7.2 Europe Rotary Vane Vacuum Pumps Sales Value Share by Country, 2023 VS 2030
- 6.8 Asia-Pacific
 - 6.8.1 Asia-Pacific Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 6.8.2 Asia-Pacific Rotary Vane Vacuum Pumps Sales Value Share by Country, 2023 VS 2030
- 6.9 Latin America
 - 6.9.1 Latin America Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 6.9.2 Latin America Rotary Vane Vacuum Pumps Sales Value Share by Country, 2023 VS 2030
- 6.10 Middle East & Africa
 - 6.10.1 Middle East & Africa Rotary Vane Vacuum Pumps Sales Value (2019-2030)
 - 6.10.2 Middle East & Africa Rotary Vane Vacuum Pumps Sales Value Share by Country, 2023 VS 2030

7 ROTARY VANE VACUUM PUMPS MARKET BY COUNTRY

- 7.1 Global Rotary Vane Vacuum Pumps Sales by Country: 2019 VS 2023 VS 2030
- 7.2 Global Rotary Vane Vacuum Pumps Sales Value by Country: 2019 VS 2023 VS 2030
- 7.3 Global Rotary Vane Vacuum Pumps Sales by Country (2019-2030)
 - 7.3.1 Global Rotary Vane Vacuum Pumps Sales by Country (2019-2024)
 - 7.3.2 Global Rotary Vane Vacuum Pumps Sales by Country (2025-2030)
- 7.4 Global Rotary Vane Vacuum Pumps Sales Value by Country (2019-2030)
 - 7.4.1 Global Rotary Vane Vacuum Pumps Sales Value by Country (2019-2024)
 - 7.4.2 Global Rotary Vane Vacuum Pumps Sales Value by Country (2025-2030)

7.5 USA

7.5.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.5.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.5.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.6 Canada

7.6.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.6.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.6.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.7 Germany

7.7.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.7.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.7.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.8 France

7.8.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.8.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.8.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.9 U.K.

7.9.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.9.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.9.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.10 Italy

7.10.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.10.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.10.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.11 Netherlands

7.11.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.11.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.11.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.12 Nordic Countries

7.12.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.12.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.12.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

VS 2030

7.13 China

7.13.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.13.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.13.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.14 Japan

7.14.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.14.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.14.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.15 South Korea

7.15.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.15.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.15.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.16 Southeast Asia

7.16.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.16.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.16.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.17 India

7.17.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.17.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.17.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.18 Australia

7.18.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.18.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.18.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.19 Mexico

7.19.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.19.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.19.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023

VS 2030

7.20 Brazil

7.20.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.20.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.20.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.21 Turkey

7.21.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.21.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.21.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.22 Saudi Arabia

7.22.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.22.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.22.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

7.23 UAE

7.23.1 Global Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030)

7.23.2 Global Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030

7.23.3 Global Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030

8 COMPANY PROFILES

8.1 Atlas Copco

8.1.1 Atlas Copco Company Information

8.1.2 Atlas Copco Business Overview

8.1.3 Atlas Copco Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)

8.1.4 Atlas Copco Rotary Vane Vacuum Pumps Product Portfolio

8.1.5 Atlas Copco Recent Developments

8.2 Busch

8.2.1 Busch Company Information

8.2.2 Busch Business Overview

8.2.3 Busch Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)

8.2.4 Busch Rotary Vane Vacuum Pumps Product Portfolio

8.2.5 Busch Recent Developments

8.3 Gardner Denver

8.3.1 Gardner Denver Company Information

8.3.2 Gardner Denver Business Overview

8.3.3 Gardner Denver Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)

8.3.4 Gardner Denver Rotary Vane Vacuum Pumps Product Portfolio

- 8.3.5 Gardner Denver Recent Developments
- 8.4 Pfeiffer Vacuum
 - 8.4.1 Pfeiffer Vacuum Company Information
 - 8.4.2 Pfeiffer Vacuum Business Overview
 - 8.4.3 Pfeiffer Vacuum Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)
 - 8.4.4 Pfeiffer Vacuum Rotary Vane Vacuum Pumps Product Portfolio
 - 8.4.5 Pfeiffer Vacuum Recent Developments
- 8.5 Tuthill
 - 8.5.1 Tuthill Company Information
 - 8.5.2 Tuthill Business Overview
 - 8.5.3 Tuthill Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)
 - 8.5.4 Tuthill Rotary Vane Vacuum Pumps Product Portfolio
 - 8.5.5 Tuthill Recent Developments
- 8.6 Becker Pumps
 - 8.6.1 Becker Pumps Company Information
 - 8.6.2 Becker Pumps Business Overview
 - 8.6.3 Becker Pumps Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)
 - 8.6.4 Becker Pumps Rotary Vane Vacuum Pumps Product Portfolio
 - 8.6.5 Becker Pumps Recent Developments
- 8.7 Agilent
 - 8.7.1 Agilent Company Information
 - 8.7.2 Agilent Business Overview
 - 8.7.3 Agilent Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)
 - 8.7.4 Agilent Rotary Vane Vacuum Pumps Product Portfolio
 - 8.7.5 Agilent Recent Developments
- 8.8 Gast(IDEX)
 - 8.8.1 Gast(IDEX) Company Information
 - 8.8.2 Gast(IDEX) Business Overview
 - 8.8.3 Gast(IDEX) Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)
 - 8.8.4 Gast(IDEX) Rotary Vane Vacuum Pumps Product Portfolio
 - 8.8.5 Gast(IDEX) Recent Developments
- 8.9 ULVAC
 - 8.9.1 ULVAC Company Information
 - 8.9.2 ULVAC Business Overview
 - 8.9.3 ULVAC Rotary Vane Vacuum Pumps Sales, Value and Gross Margin

(2019-2024)

8.9.4 ULVAC Rotary Vane Vacuum Pumps Product Portfolio

8.9.5 ULVAC Recent Developments

8.10 Value Specializes

8.10.1 Value Specializes Company Information

8.10.2 Value Specializes Business Overview

8.10.3 Value Specializes Rotary Vane Vacuum Pumps Sales, Value and Gross Margin

(2019-2024)

8.10.4 Value Specializes Rotary Vane Vacuum Pumps Product Portfolio

8.10.5 Value Specializes Recent Developments

8.11 Dekker Vacuum Technologies

8.11.1 Dekker Vacuum Technologies Company Information

8.11.2 Dekker Vacuum Technologies Business Overview

8.11.3 Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)

8.11.4 Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Product Portfolio

8.11.5 Dekker Vacuum Technologies Recent Developments

8.12 Osaka Vacuum

8.12.1 Osaka Vacuum Company Information

8.12.2 Osaka Vacuum Business Overview

8.12.3 Osaka Vacuum Rotary Vane Vacuum Pumps Sales, Value and Gross Margin

(2019-2024)

8.12.4 Osaka Vacuum Rotary Vane Vacuum Pumps Product Portfolio

8.12.5 Osaka Vacuum Recent Developments

8.13 Hokaido Vacuum Technology

8.13.1 Hokaido Vacuum Technology Company Information

8.13.2 Hokaido Vacuum Technology Business Overview

8.13.3 Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Sales, Value and Gross Margin (2019-2024)

8.13.4 Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Product Portfolio

8.13.5 Hokaido Vacuum Technology Recent Developments

8.14 Wenling Tingwei

8.14.1 Wenling Tingwei Company Information

8.14.2 Wenling Tingwei Business Overview

8.14.3 Wenling Tingwei Rotary Vane Vacuum Pumps Sales, Value and Gross Margin

(2019-2024)

8.14.4 Wenling Tingwei Rotary Vane Vacuum Pumps Product Portfolio

8.14.5 Wenling Tingwei Recent Developments

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

- 9.1 Rotary Vane Vacuum Pumps Value Chain Analysis
 - 9.1.1 Rotary Vane Vacuum Pumps Key Raw Materials
 - 9.1.2 Raw Materials Key Suppliers
 - 9.1.3 Manufacturing Cost Structure
 - 9.1.4 Rotary Vane Vacuum Pumps Sales Mode & Process
- 9.2 Rotary Vane Vacuum Pumps Sales Channels Analysis
 - 9.2.1 Direct Comparison with Distribution Share
 - 9.2.2 Rotary Vane Vacuum Pumps Distributors
 - 9.2.3 Rotary Vane Vacuum Pumps Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

- 11.1 Reasons for Doing This Study
- 11.2 Research Methodology
- 11.3 Research Process
- 11.4 Authors List of This Report
- 11.5 Data Source
 - 11.5.1 Secondary Sources
 - 11.5.2 Primary Sources

List Of Tables

LIST OF TABLES

- Table 1. Rotary Vane Vacuum Pumps Industry Trends
- Table 2. Rotary Vane Vacuum Pumps Industry Drivers
- Table 3. Rotary Vane Vacuum Pumps Industry Opportunities and Challenges
- Table 4. Rotary Vane Vacuum Pumps Industry Restraints
- Table 5. Global Rotary Vane Vacuum Pumps Revenue by Company (US\$ Million) & (2019-2024)
- Table 6. Global Rotary Vane Vacuum Pumps Revenue Share by Company (2019-2024)
- Table 7. Global Rotary Vane Vacuum Pumps Sales Volume by Company (K Units) & (2019-2024)
- Table 8. Global Rotary Vane Vacuum Pumps Sales Volume Share by Company (2019-2024)
- Table 9. Global Rotary Vane Vacuum Pumps Average Price (USD/Unit) of Company (2019-2024)
- Table 10. Global Rotary Vane Vacuum Pumps Company Ranking, 2022 VS 2023 VS 2024 & (US\$ Million)
- Table 11. Global Rotary Vane Vacuum Pumps Key Company Manufacturing Base & Headquarters
- Table 12. Global Rotary Vane Vacuum Pumps Company, Product Type & Application
- Table 13. Global Rotary Vane Vacuum Pumps Company Commercialization Time
- Table 14. Global Company Market Concentration Ratio (CR5 and HHI)
- Table 15. Global Rotary Vane Vacuum Pumps by Company Type (Tier 1, Tier 2, and Tier 3) & (Based on Revenue of 2023)
- Table 16. Mergers & Acquisitions, Expansion
- Table 17. Major Companies of Single Stage Rotary Vane Vacuum Pumps
- Table 18. Major Companies of Two Stage Rotary Vane Vacuum Pumps
- Table 19. Global Rotary Vane Vacuum Pumps Sales Volume by Type 2019 VS 2023 VS 2030 (K Units)
- Table 20. Global Rotary Vane Vacuum Pumps Sales Volume by Type (2019-2024) & (K Units)
- Table 21. Global Rotary Vane Vacuum Pumps Sales Volume by Type (2025-2030) & (K Units)
- Table 22. Global Rotary Vane Vacuum Pumps Sales Volume Share by Type (2019-2024)
- Table 23. Global Rotary Vane Vacuum Pumps Sales Volume Share by Type (2025-2030)

Table 24. Global Rotary Vane Vacuum Pumps Sales Value by Type 2019 VS 2023 VS 2030 (US\$ Million)

Table 25. Global Rotary Vane Vacuum Pumps Sales Value by Type (2019-2024) & (US\$ Million)

Table 26. Global Rotary Vane Vacuum Pumps Sales Value by Type (2025-2030) & (US\$ Million)

Table 27. Global Rotary Vane Vacuum Pumps Sales Value Share by Type (2019-2024)

Table 28. Global Rotary Vane Vacuum Pumps Sales Value Share by Type (2025-2030)

Table 29. Major Companies of Semiconductor and Electronic Industry

Table 30. Major Companies of Chemical Industry

Table 31. Major Companies of Laboratory Research

Table 32. Major Companies of Food Industry

Table 33. Major Companies of Machinery Industry

Table 34. Major Companies of Other

Table 35. Global Rotary Vane Vacuum Pumps Sales Volume by Application 2019 VS 2023 VS 2030 (K Units)

Table 36. Global Rotary Vane Vacuum Pumps Sales Volume by Application (2019-2024) & (K Units)

Table 37. Global Rotary Vane Vacuum Pumps Sales Volume by Application (2025-2030) & (K Units)

Table 38. Global Rotary Vane Vacuum Pumps Sales Volume Share by Application (2019-2024)

Table 39. Global Rotary Vane Vacuum Pumps Sales Volume Share by Application (2025-2030)

Table 40. Global Rotary Vane Vacuum Pumps Sales Value by Application 2019 VS 2023 VS 2030 (US\$ Million)

Table 41. Global Rotary Vane Vacuum Pumps Sales Value by Application (2019-2024) & (US\$ Million)

Table 42. Global Rotary Vane Vacuum Pumps Sales Value by Application (2025-2030) & (US\$ Million)

Table 43. Global Rotary Vane Vacuum Pumps Sales Value Share by Application (2019-2024)

Table 44. Global Rotary Vane Vacuum Pumps Sales Value Share by Application (2025-2030)

Table 45. Global Rotary Vane Vacuum Pumps Sales by Region: 2019 VS 2023 VS 2030 (K Units)

Table 46. Global Rotary Vane Vacuum Pumps Sales by Region (2019-2024) & (K Units)

Table 47. Global Rotary Vane Vacuum Pumps Sales Market Share by Region (2019-2024)

Table 48. Global Rotary Vane Vacuum Pumps Sales by Region (2025-2030) & (K Units)

Table 49. Global Rotary Vane Vacuum Pumps Sales Market Share by Region (2025-2030)

Table 50. Global Rotary Vane Vacuum Pumps Sales Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 51. Global Rotary Vane Vacuum Pumps Sales Value by Region (2019-2024) & (US\$ Million)

Table 52. Global Rotary Vane Vacuum Pumps Sales Value Share by Region (2019-2024)

Table 53. Global Rotary Vane Vacuum Pumps Sales Value by Region (2025-2030) & (US\$ Million)

Table 54. Global Rotary Vane Vacuum Pumps Sales Value Share by Region (2025-2030)

Table 55. Global Rotary Vane Vacuum Pumps Market Average Price (USD/Unit) by Region (2019-2024)

Table 56. Global Rotary Vane Vacuum Pumps Market Average Price (USD/Unit) by Region (2025-2030)

Table 57. Global Rotary Vane Vacuum Pumps Sales by Country: 2019 VS 2023 VS 2030 (K Units)

Table 58. Global Rotary Vane Vacuum Pumps Sales Value by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Table 59. Global Rotary Vane Vacuum Pumps Sales by Country (2019-2024) & (K Units)

Table 60. Global Rotary Vane Vacuum Pumps Sales Market Share by Country (2019-2024)

Table 61. Global Rotary Vane Vacuum Pumps Sales by Country (2025-2030) & (K Units)

Table 62. Global Rotary Vane Vacuum Pumps Sales Market Share by Country (2025-2030)

Table 63. Global Rotary Vane Vacuum Pumps Sales Value by Country (2019-2024) & (US\$ Million)

Table 64. Global Rotary Vane Vacuum Pumps Sales Value Market Share by Country (2019-2024)

Table 65. Global Rotary Vane Vacuum Pumps Sales Value by Country (2025-2030) & (US\$ Million)

Table 66. Global Rotary Vane Vacuum Pumps Sales Value Market Share by Country (2025-2030)

Table 67. Atlas Copco Company Information

Table 68. Atlas Copco Business Overview

- Table 69. Atlas Copco Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 70. Atlas Copco Rotary Vane Vacuum Pumps Product Portfolio
- Table 71. Atlas Copco Recent Development
- Table 72. Busch Company Information
- Table 73. Busch Business Overview
- Table 74. Busch Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 75. Busch Rotary Vane Vacuum Pumps Product Portfolio
- Table 76. Busch Recent Development
- Table 77. Gardner Denver Company Information
- Table 78. Gardner Denver Business Overview
- Table 79. Gardner Denver Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 80. Gardner Denver Rotary Vane Vacuum Pumps Product Portfolio
- Table 81. Gardner Denver Recent Development
- Table 82. Pfeiffer Vacuum Company Information
- Table 83. Pfeiffer Vacuum Business Overview
- Table 84. Pfeiffer Vacuum Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 85. Pfeiffer Vacuum Rotary Vane Vacuum Pumps Product Portfolio
- Table 86. Pfeiffer Vacuum Recent Development
- Table 87. Tuthill Company Information
- Table 88. Tuthill Business Overview
- Table 89. Tuthill Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 90. Tuthill Rotary Vane Vacuum Pumps Product Portfolio
- Table 91. Tuthill Recent Development
- Table 92. Becker Pumps Company Information
- Table 93. Becker Pumps Business Overview
- Table 94. Becker Pumps Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 95. Becker Pumps Rotary Vane Vacuum Pumps Product Portfolio
- Table 96. Becker Pumps Recent Development
- Table 97. Agilent Company Information
- Table 98. Agilent Business Overview
- Table 99. Agilent Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 100. Agilent Rotary Vane Vacuum Pumps Product Portfolio

- Table 101. Agilent Recent Development
- Table 102. Gast(IDEX) Company Information
- Table 103. Gast(IDEX) Business Overview
- Table 104. Gast(IDEX) Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 105. Gast(IDEX) Rotary Vane Vacuum Pumps Product Portfolio
- Table 106. Gast(IDEX) Recent Development
- Table 107. ULVAC Company Information
- Table 108. ULVAC Business Overview
- Table 109. ULVAC Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 110. ULVAC Rotary Vane Vacuum Pumps Product Portfolio
- Table 111. ULVAC Recent Development
- Table 112. Value Specializes Company Information
- Table 113. Value Specializes Business Overview
- Table 114. Value Specializes Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 115. Value Specializes Rotary Vane Vacuum Pumps Product Portfolio
- Table 116. Value Specializes Recent Development
- Table 117. Dekker Vacuum Technologies Company Information
- Table 118. Dekker Vacuum Technologies Business Overview
- Table 119. Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 120. Dekker Vacuum Technologies Rotary Vane Vacuum Pumps Product Portfolio
- Table 121. Dekker Vacuum Technologies Recent Development
- Table 122. Osaka Vacuum Company Information
- Table 123. Osaka Vacuum Business Overview
- Table 124. Osaka Vacuum Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 125. Osaka Vacuum Rotary Vane Vacuum Pumps Product Portfolio
- Table 126. Osaka Vacuum Recent Development
- Table 127. Hokaido Vacuum Technology Company Information
- Table 128. Hokaido Vacuum Technology Business Overview
- Table 129. Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 130. Hokaido Vacuum Technology Rotary Vane Vacuum Pumps Product Portfolio
- Table 131. Hokaido Vacuum Technology Recent Development
- Table 132. Wenling Tingwei Company Information

Table 133. Wenling Tingwei Business Overview

Table 134. Wenling Tingwei Rotary Vane Vacuum Pumps Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 135. Wenling Tingwei Rotary Vane Vacuum Pumps Product Portfolio

Table 136. Wenling Tingwei Recent Development

Table 137. Key Raw Materials

Table 138. Raw Materials Key Suppliers

Table 139. Rotary Vane Vacuum Pumps Distributors List

Table 140. Rotary Vane Vacuum Pumps Customers List

Table 141. Research Programs/Design for This Report

Table 142. Authors List of This Report

Table 143. Secondary Sources

Table 144. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Rotary Vane Vacuum Pumps Product Picture
- Figure 2. Global Rotary Vane Vacuum Pumps Sales Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)
- Figure 4. Global Rotary Vane Vacuum Pumps Sales (2019-2030) & (K Units)
- Figure 5. Global Rotary Vane Vacuum Pumps Sales Average Price (USD/Unit) & (2019-2030)
- Figure 6. Global Rotary Vane Vacuum Pumps Company Revenue Ranking in 2023 (US\$ Million)
- Figure 7. Global Top 5 and 10 Company Market Share by Revenue in 2023 (US\$ Million)
- Figure 8. Company Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Single Stage Rotary Vane Vacuum Pumps Picture
- Figure 10. Two Stage Rotary Vane Vacuum Pumps Picture
- Figure 11. Global Rotary Vane Vacuum Pumps Sales Volume by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 12. Global Rotary Vane Vacuum Pumps Sales Volume Share 2019 VS 2023 VS 2030
- Figure 13. Global Rotary Vane Vacuum Pumps Sales Volume Share by Type (2019-2030)
- Figure 14. Global Rotary Vane Vacuum Pumps Sales Value by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Figure 15. Global Rotary Vane Vacuum Pumps Sales Value Share 2019 VS 2023 VS 2030
- Figure 16. Global Rotary Vane Vacuum Pumps Sales Value Share by Type (2019-2030)
- Figure 17. Semiconductor and Electronic Industry Picture
- Figure 18. Chemical Industry Picture
- Figure 19. Laboratory Research Picture
- Figure 20. Food Industry Picture
- Figure 21. Machinery Industry Picture
- Figure 22. Other Picture
- Figure 23. Global Rotary Vane Vacuum Pumps Sales Volume by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 24. Global Rotary Vane Vacuum Pumps Sales Volume Share 2019 VS 2023 VS 2030

Figure 25. Global Rotary Vane Vacuum Pumps Sales Volume Share by Application (2019-2030)

Figure 26. Global Rotary Vane Vacuum Pumps Sales Value by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Figure 27. Global Rotary Vane Vacuum Pumps Sales Value Share 2019 VS 2023 VS 2030

Figure 28. Global Rotary Vane Vacuum Pumps Sales Value Share by Application (2019-2030)

Figure 29. Global Rotary Vane Vacuum Pumps Sales by Region: 2019 VS 2023 VS 2030 (K Units)

Figure 30. Global Rotary Vane Vacuum Pumps Sales Market Share by Region: 2019 VS 2023 VS 2030

Figure 31. Global Rotary Vane Vacuum Pumps Sales Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 32. Global Rotary Vane Vacuum Pumps Sales Value Share by Region: 2019 VS 2023 VS 2030

Figure 33. North America Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)

Figure 34. North America Rotary Vane Vacuum Pumps Sales Value Share by Country (%), 2023 VS 2030

Figure 35. Europe Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)

Figure 36. Europe Rotary Vane Vacuum Pumps Sales Value Share by Country (%), 2023 VS 2030

Figure 37. Asia-Pacific Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)

Figure 38. Asia-Pacific Rotary Vane Vacuum Pumps Sales Value Share by Country (%), 2023 VS 2030

Figure 39. Latin America Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)

Figure 40. Latin America Rotary Vane Vacuum Pumps Sales Value Share by Country (%), 2023 VS 2030

Figure 41. Middle East & Africa Rotary Vane Vacuum Pumps Sales Value (2019-2030) & (US\$ Million)

Figure 42. Middle East & Africa Rotary Vane Vacuum Pumps Sales Value Share by Country (%), 2023 VS 2030

Figure 43. USA Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030) & (US\$ Million)

Figure 44. USA Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS

2030 & (%)

Figure 45. USA Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030 & (%)

Figure 46. Canada Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030) & (US\$ Million)

Figure 47. Canada Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030 & (%)

Figure 48. Canada Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030 & (%)

Figure 49. Germany Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030) & (US\$ Million)

Figure 50. Germany Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030 & (%)

Figure 51. Germany Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030 & (%)

Figure 52. France Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030) & (US\$ Million)

Figure 53. France Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030 & (%)

Figure 54. France Rotary Vane Vacuum Pumps Sales Value Share by Application, 2023 VS 2030 & (%)

Figure 55. U.K. Rotary Vane Vacuum Pumps Sales Value Growth Rate (2019-2030) & (US\$ Million)

Figure 56. U.K. Rotary Vane Vacuum Pumps Sales Value Share by Type, 2023 VS 2030 & (%)

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