

Sliding Vane Air Motor Market Report by Application (Tools, Industrial Equipment, and Others), End Use Industry (Automotive, Manufacturing, Healthcare, and Others), and Region 2025-2033

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Abstracts

The global sliding vane air motor market size reached USD 2.8 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 4.1 Billion by 2033, exhibiting a growth rate (CAGR) of 4.26% during 2025-2033. The rising demand for enhanced tools with fastening capabilities and variable torque for cutting, drilling, and other purposes, along with the growing investments in superior industrial tools, are primarily bolstering the market.

Global Sliding Vane Air Motor Market Analysis:

Major Market Drivers: The growing adoption of sliding vane air motors, owing to their capacity to perform in moist environments, optimal safety, enhanced flexibility, high reliability, etc., is one of the key drivers fueling the global market. Besides this, the shifting preferences from electric motors towards sliding vane air motors are also acting as significant growth-inducing factors.

Key Market Trends: The emerging popularity of compact, easy-to-install, and lightweight sliding vane air motors, as they can efficiently work in several hazardous settings with reduced fuel consumption, represents one of the emerging trends propelling the sliding vane air motor market share. Moreover, they are extensively utilized, on account of their maintenance and high power-to-weight ratio, which is projected to fuel the sliding vane air motor market over the forecasted period.

Geographical Trends: According to the sliding vane air motor market research report, Asia-Pacific currently dominates the global market. The increasing usage of sliding vane air motors in industrial tools that are adopted in the manufacturing and automotive sectors is positively impacting the regional market. Additionally, extensive investments in R&D activities will continue to catalyze the sliding vane air motor market in the Asia Pacific region over the foreseeable future.

Competitive Landscape: Some of the leading players in the global sliding vane air motor market include Atlas Copco AB, Bibus AG, Deprag Schulz GmbH u. Co., Ferry Produits, Globe Airmotors, Ingersoll Rand, Parker Hannifin Corporation, Sanei Co. Ltd., and Sommer-Technik GmbH, among many others.

Challenges and Opportunities: Some of the key challenges hampering the sliding vane air motor market price include high energy consumption, problems related to air leakage, and limited scope in heavy-duty applications. However, the rising inclination towards superior industrial systems and continuous technological advancements are expected to propel the global market in the coming years.

Global Sliding Vane Air Motor Market Trends:

The Rising Industrial Automation Trend

The increasing focus of key players on making industrial processes more effective and efficient is augmenting the demand for sliding vane air motors. According to the Industrial Energy Accelerator, nearly 70% of all electrical energy consumed by numerous industries is used by various electrical motors that are installed globally. Consequently, leading producers in these industries are emphasizing on adopting superior industrial tools that are energy-efficient, thereby driving the global market. Moreover, as sliding vane air motors provide a high power-to-weight ratio and are easy to maintain, they are widely utilized in several industrial processes. Ingersoll Rand, a global leader with a comprehensive offering of products that maintain optimal standards of quality, develops both pneumatic tools and battery-powered cordless tools that are specifically designed to deliver superior performance. In line with this, these tools perform specific tasks with higher precision, speed, and consistency, thereby making them indispensable in several industrial processes.

Favorable Government Policies

The launch of numerous favorable policies by government bodies to expand manufacturing facilities and promote the adoption of superior industrial tools that can efficiently work in a wide array of hazardous settings with low fuel consumption is propelling the market growth across countries. For example, according to the Ministry of Industry and Information Technology, government bodies in China introduced numerous smart manufacturing pilot projects. As per the 13th five-year plan, the country aims to develop its intelligent manufacturing system and complete the critical industry transformation by 2025. Consequently, automakers in the country are expanding their manufacturing facilities in China, which in turn, is augmenting the demand for enhanced and energy-efficient equipment in industrial processes.

Key Prominent Players

The rising number of leading players who are focusing on launching enhanced sliding vane air motor variants with improved capabilities is primarily driving the market growth. For instance, Deprag Schulz GmbH u. Co. develops pneumatic motors that offer alternatives for drive- and control tasks for all industry areas. In line with this, its Advanced Line Air Motors, made from stainless steel, are utilized in areas where high hygiene requirements are necessary. These air motors are especially suited for use in numerous industries, including food and beverage, medical, pharmaceuticals, chemical, etc.

Global Sliding Vane Air Motor Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on the application and end use industry.

Breakup by Application:

Tools

Industrial Equipment

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes tools, industrial equipment, and others.

Sliding vane air motors are equipped with pneumatic grinders, pneumatic drills, impact wrenches, and pneumatic sanders, among other tools. Sliding vane air engines are suitable for moving these hand-held tools, as they are small and have high torque. This, in turn, makes them easy to use and accurate. In addition, they find widespread applications in places where managed and stable power is needed. Sliding vane air motors are also adopted in mixers, hoists, winches, conveyor systems, pumps, agitators, etc.

Breakup by End Use Industry:

Automotive

Manufacturing

Healthcare

Others

Currently, automotive exhibits a clear dominance in the market

The report has provided a detailed breakup and analysis of the market based on the end use industry. This includes automotive, manufacturing, healthcare, and others. According to the report, automotive accounted for the largest market share.

Sliding vane air motors are widely utilized in numerous systems and processes across the automobile business, which is primarily driving the market growth in this segmentation. They are adapted to move pneumatic tools, moving belts, lifting equipment, etc., on assembly lines for cars. Furthermore, sliding vane air engines are also utilized for running paint booths and making tires. Owing to their high-power output, steady performance, and small size, they are widely used in the production of cars. This, in turn, is acting as another significant growth-inducing factor for the segmentation.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Asia-Pacific leads the market, accounting for the largest sliding vane air motor market share.

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia-Pacific accounted for the largest market share.

The increasing number of offshore and onshore drilling activities in the Asia-Pacific region is propelling the demand for sliding vane air motors, as they can work precisely and reliably in harsh settings. For example, in October 2022, government bodies in India announced to set up 42 oil and gas blocks for exploration and R&D activities via international competitive bidding. Moreover, India will more than double the area under production of oil and gas to 0.5 million sq. km. by 2025 and 1 million sq. km. by 2030, thereby intending to cut reliance on imported fuel and raise domestic output. This, in turn, will create a favorable outlook for sliding vane air motors in the oil and gas industry, as they are widely adopted to drive equipment, including compressor systems and pumps.

Competitive Landscape:

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Atlas Copco AB

Bibus AG

Deprag Schulz GmbH u. Co.

Ferry Produits

Globe Airmotors

Ingersoll Rand

Parker Hannifin Corporation

Sanei Co. Ltd.

Sommer-Technik GmbH

Key Questions Answered in This Report

- 1.How big is the global sliding vane air motor market?
- 2.What is the expected growth rate of the global sliding vane air motor market during 2025-2033?
- 3.What are the key factors driving the global sliding vane air motor market?
- 4.What has been the impact of COVID-19 on the global sliding vane air motor market?
- 5.What is the breakup of the global sliding vane air motor market based on the end use industry?
- 6.What are the key regions in the global sliding vane air motor market?
- 7.Who are the key players/companies in the global sliding vane air motor market?

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