

# **Asia-Pacific Agriculture Pumps Market Segmented By Type (Rotodynamic Pumps, Centrifugal, Mixed Flow, Axial Flow, Positive Displacement, Reciprocating, Rotary), By Material Type (Iron, Bronze, Aluminum, Stainless Steel and Other), By Power Source (Electricity Grid-Connection, Diesel/Petrol, Solar), By Horsepower (0.5 TO 3, 4 TO 15, 16 TO 30, 31 TO 40, >40 HP), By Head Size (Up to 1 meter, 1-3 meter, 3-6 meter, 6-10 meter, 10-15 meter, Above 15 meter), By End User (Irrigation, Livestock Watering), By Region, Competition, Forecast & Opportunities, 2018-2028**

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## **Abstracts**

Asia-Pacific Agriculture Pumps Market is anticipated to project impressive growth in the forecast period. Agriculture pumps are integral components in farming operations, designed to transport water from one location to another. They play a crucial role in irrigation systems, ensuring an adequate and regular supply of water to crops, particularly in areas where rainfall is inconsistent or insufficient. Types of agriculture pumps include centrifugal, submersible, and turbine pumps, each with unique features and applications.

The Agriculture Pumps market represents the global demand, supply, and trends associated with these essential farming tools. Market dynamics include the competitive landscape, key players, and their market shares, market size and growth trends, and factors influencing these trends such as technological innovation, changing farming practices, and environmental concerns. It also encompasses different types of pumps

and their specific market performance, offering insights into consumer preferences and potential opportunities for growth. Importantly, this market operates within the broader context of the agricultural equipment industry, significantly impacted by factors such as governmental agricultural policies, climatic conditions, and global food demand.

## Key Market Drivers

### Increasing Adoption of Precision Farming Techniques

The increasing adoption of precision farming techniques in the Asia-Pacific region is expected to significantly drive the demand for agriculture pumps. Precision farming is a modern farming practice that uses advanced technologies to enable efficient and controlled use of resources, enhancing productivity and sustainability. Agricultural pumps, a critical component of this system, are used for irrigation, fertigation, and chemigation, serving as the heart of the water distribution process. The precise control of water and nutrients offered by these pumps optimizes crop health and yield. As awareness of precision farming techniques grows across the Asia-Pacific, so too does the demand for advanced and efficient agricultural pumps. This surge in demand is further propelled by government initiatives promoting sustainable farming practices, tech advancements in pump design and functionality, and the undeniable need to maximize agricultural yields to meet the food needs of the rapidly increasing population. In light of these factors, it's clear that the Asia-Pacific region will see a significant rise in demand for agriculture pumps, driven largely by the adoption of precision farming techniques.

### Increasing Prevalence of Small-Scale Farming

The rising prevalence of small-scale farming in the Asia-Pacific region is anticipated to drive the demand for agricultural pumps. As small-scale farming often has limited access to natural water sources, pumps become essential for irrigation and maintaining optimal crop health. Additionally, the Asia-Pacific region is home to a considerable portion of the global population, leading to an ever-increasing demand for food. Small-scale farmers are compelled to maximize their yield within confined spaces, and agricultural pumps play a crucial role in achieving this objective by providing efficient water management. The push for sustainable and self-sufficient farming practices also contributes to the surge in the demand for these pumps. Governments in the region are providing subsidies and incentives for farmers to adopt modern farming techniques, which often involve the use of agricultural pumps. Hence, the escalating trend of small-scale farming combined with supportive policies is expected to further fuel the market

growth of agricultural pumps in the Asia-Pacific region.

### Advancements in Pump Technology & Their Increasing Efficiency

The advancements in pump technology and their increasing efficiency are expected to drive the demand for agricultural pumps in the Asia-Pacific region. Innovations like solar-powered pumps and smart irrigation systems are making the farming process more economical and sustainable, particularly in regions where energy resources are limited. The high efficiency of these technologically advanced pumps reduces the energy consumption and operational cost, making them a favorable choice for farmers. In addition, the emphasis on water conservation and sustainable agriculture practices is further pushing the adoption of these advanced pumps. The Asia-Pacific region, with its extensive agricultural activities and growing focus on modern farming techniques, is set for significant growth in the agricultural pump market. Countries like China and India, with their massive farming sectors and governmental support towards modernization of farming infrastructure, are expected to be at the forefront of this demand surge. As technology continues to evolve and become more accessible, the agricultural sector in the Asia-Pacific region is likely to see an increased adoption of efficient and innovative pump systems.

### Expansion of Agricultural Operations Due to Economic Growth

The Asia-Pacific region is currently witnessing an unprecedented economic growth, which has led to extensive expansion in agricultural operations. As economies flourish and populations expand, the demand for food increases significantly, necessitating larger scale agricultural activities. Consequently, this situation creates a burgeoning demand for agricultural pumps. These vital pieces of equipment serve as the lifeblood of farming, providing essential irrigation to crops and facilitating optimal agricultural productivity. Particularly in areas with inconsistent rainfall, agricultural pumps enable farmers to maintain a reliable water supply, ensuring the health and growth of their crops. In addition, the economic prosperity in the Asia-Pacific region has provided farmers with greater access to resources and technology, including agricultural pumps. Governments are investing heavily in agricultural infrastructure and offering subsidies for the purchase of farming equipment, further driving the demand for these pumps. Moreover, the shift towards mechanization and modern farming techniques is another significant factor contributing to this increased demand. Thus, the economic growth in the Asia-Pacific region is expected to continue fueling the demand for agricultural pumps, promoting not only enhanced agricultural productivity but also the overall growth and development of the region.

## Key Market Challenges

### Lack of Technical Knowledge Among Farmers

The farming industry in the Asia-Pacific region is experiencing a downturn in the demand for agricultural pumps, primarily due to a deficit in technical knowledge among farmers. The majority of farmers in this region still adhere to traditional farming methods, with a limited understanding of how to operate and maintain modern agricultural equipment such as pumps. These intricate machines, while incredibly efficient, require a certain level of technical know-how for effective usage. Their complexity often deters farmers who lack this technical proficiency, thereby reducing overall demand. Furthermore, without the necessary skills to perform regular maintenance and troubleshoot common issues, these pumps can quickly become costly burdens rather than helpful tools. This issue is exacerbated in rural areas with limited access to technical support or training programs. As a result, despite the undeniable efficiency and potential yield increase offered by these pumps, the lack of technical knowledge among farmers is projected to continue decreasing the demand for agricultural pumps in the Asia-Pacific region.

### High Initial Investment

High initial investment for agricultural pumps is anticipated to curtail demand in the Asia-Pacific region significantly. The majority of farmers in this region are small-scale operators who face financial constraints. For these farmers, the substantial initial outlay required for agricultural pumps is often prohibitive. Unlike in developed countries, where government subsidies or easy access to credit can offset such initial costs, the situation is far more challenging in many Asia-Pacific countries. There, farmers typically lack access to affordable financing options, leading to underinvestment in potentially productivity-enhancing technologies such as agricultural pumps. Furthermore, the perception of risk associated with such a substantial initial investment—driven by uncertainties around crop yields, market prices, and potential equipment failure—also contributes to this disinclination. While the long-term benefits of using agricultural pumps, including more reliable irrigation and higher crop yields, are generally understood, the steep initial cost remains a significant barrier. Therefore, unless there are interventions to make these technologies more affordable, high initial investment costs are likely to continue suppressing the adoption of agricultural pumps across the Asia-Pacific region.

## Key Market Trends

### Increase in Investments in The Agriculture Sector

As Asia-Pacific continues to experience significant economic growth, its agricultural sector has increasingly become a magnet for investments. This surge in capital allocation is, in large part, due to the region's vast potential in agricultural production, heightened by a burgeoning population with increasing food demands. With larger investments coming into play, the purchase and use of agricultural pumps are anticipated to rise dramatically. These pumps are crucial in irrigation systems, helping to ensure the consistent supply of water necessary for crop growth. Moreover, they are essential in areas where water resources are scarce, enabling farmers to use water more efficiently and sustainably. As the Asia-Pacific region grapples with the impacts of climate change, including unpredictable rainfall and prolonged droughts, the demand for reliable and efficient watering systems will only escalate. Therefore, as more investments pour into the region's agriculture sector, the demand for agricultural pumps is expected to follow suit, paving the way for an upsurge in the agriculture pumps market in Asia-Pacific.

### Expansion of Agriculture-Related Infrastructure

The Asia-Pacific region, with its vast agricultural sectors, is witnessing a substantial increase in demand for agriculture pumps. This is largely due to the ongoing expansion of agriculture-related infrastructure across the region. Numerous countries are investing heavily in irrigation systems, storage facilities, and transportation networks to support their burgeoning agricultural sectors. High-quality agriculture pumps are integral to these infrastructures, facilitating efficient water management for irrigation and ensuring a consistent water supply for crops. The agricultural sectors in emerging economies, such as China, India, and Southeast Asian countries, are particularly driving this demand due to their rapid expansion and development. As these nations work towards achieving food security and self-sufficiency, the need for effective irrigation and water management solutions, such as agriculture pumps, is growing. Moreover, government initiatives promoting sustainable farming practices are further escalating the demand for these pumps. These factors, combined with technological advancements in pump technology and the availability of affordable and energy-efficient models, are projected to significantly boost the agriculture pump market in the Asia-Pacific region.

## Segmental Insights

## Type Insights

Based on the type, In the APAC Agriculture Pumps Market, the Centrifugal type within the Rotodynamic pumps category is currently dominating. This is largely due to their high efficiency, ease of maintenance, and capability to handle large volumes of liquids, making them an optimal choice for irrigation purposes in large agricultural fields. The Centrifugal pumps operate using the principle of centrifugal force, which allows them to efficiently move water and other fluids. Their design enables them to handle a wide range of flow rates and pressures, making them versatile for various agricultural applications. Furthermore, the Centrifugal pumps are equipped with robust construction and durable materials, ensuring long-term reliability even in harsh operating conditions. Their low maintenance requirements and simple design make them cost-effective solutions for farmers and agricultural businesses.

With their ability to handle large volumes of liquids, Centrifugal pumps contribute to improving irrigation practices by efficiently distributing water to crops, promoting optimal growth and yield. Their widespread use in large agricultural fields in the APAC region is a testament to their effectiveness and reliability. In conclusion, the dominance of Centrifugal pumps in the APAC Agriculture Pumps Market is justified by their high efficiency, ease of maintenance, and capability to handle large volumes of liquids. With their versatile and reliable performance, they continue to be the preferred choice for irrigation purposes in large agricultural fields, contributing to sustainable and efficient farming practices.

## Material Type Insights

Based on the Material Type, Stainless Steel material, renowned for its dominant position in various industries, continues to uphold its supremacy. This remarkable material's excellence lies in its unrivalled corrosion resistance, exceptional durability, and remarkable strength, making it highly suitable for a wide range of agricultural applications.

Furthermore, stainless steel pumps demonstrate exceptional resilience even in the face of harsh weather conditions, ensuring their longevity outperforms pumps made from alternative materials. The APAC region, known for its reliance on reliable and long-lasting equipment, embraces stainless steel pumps as the preferred choice among farmers. With its proven track record of reliability and extended lifespan, it comes as no surprise that stainless steel pumps have gained the trust and preference of many farmers in the APAC region.



## Country Insights

In the Asia-Pacific region, China is currently leading the Agriculture Pumps Market. The dominance can be attributed to the country's vast agricultural sector, which includes a diverse range of crops and livestock. Additionally, the government has been actively promoting and encouraging modern farming techniques, such as precision agriculture and smart irrigation systems, to improve productivity and efficiency. Furthermore, China's continuous investment in agricultural infrastructure, including irrigation networks and water resource management, has further solidified its position as the leader in the Asia-Pacific Agriculture Pumps Market. With these factors in play, it is expected that China will maintain its leading position in the foreseeable future, driving advancements and innovations in the agricultural sector throughout the region.

## Key Market Players

Grundfos AS

Lindsay Corporation

Valmont Industries Inc.

Kirloskar Brothers Ltd.

Shimge Pump Industry Pvt. Ltd.

Franklin Electric Company

Zhejiang Doyin Pump Industry Co. Ltd

Mahindra Epc Ltd.

Leo Group Pumps (Zhejiang) Co., Ltd.

CNP Pumps India Pvt. Ltd.

## Report Scope:

In this report, the Asia-Pacific Agriculture Pumps Market has been segmented into the

*Asia-Pacific Agriculture Pumps Market Segmented By Type (Rotodynamic Pumps, Centrifugal, Mixed Flow, Axial Flo...*

following categories, in addition to the industry trends which have also been detailed below:

Asia-Pacific Agriculture Pumps Market, By Type:

Rotodynamic Pumps

Centrifugal

Mixed Flow

Axial Flow

Positive Displacement

Reciprocating

Rotary

Asia-Pacific Agriculture Pumps Market, By Material Type:

Iron

Bronze

Aluminium

Stainless Steel

Other

Asia-Pacific Agriculture Pumps Market, By Power Source:

Electricity Grid-Connection

Diesel/Petrol

Solar



#### Asia-Pacific Agriculture Pumps Market, By Horsepower:

0.5 TO 3

4 TO 15

16 TO 30

31 TO 40

\$\$\$\$40 HP)

#### Asia-Pacific Agriculture Pumps Market, By Head Size:

Up to 1 meter

1-3 meter

3-6 meter

6-10 meter

10-15 meter

Above 15 meter

#### Asia-Pacific Agriculture Pumps Market, By End User:

Irrigation

Livestock Watering

#### Asia-Pacific Agriculture Pumps Market, By Country:

China

Japan

Australia

Thailand

India

Indonesia

South Korea

Singapore

Malaysia

Vietnam

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia-Pacific Agriculture Pumps Market.

## Available Customizations:

Asia-Pacific Agriculture Pumps Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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