

Agriculture Pumps Market Forecasts to 2030 – Global Analysis By Type (Rotodynamic Pumps and Positive Displacement Pumps), Material Type (Iron, Bronze, Aluminium, Stainless Steel and Other Material Types), Horsepower, Head Size, Power Source, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Agriculture Pumps Market is accounted for \$6.06 billion in 2024 and is expected to reach \$10.50 billion by 2030 growing at a CAGR of 9.6% during the forecast period. Agriculture pumps are essential tools in modern farming, designed to facilitate efficient water management and irrigation. In order to irrigate crops and guarantee their best growth and yield, these pumps are used to extract water from a variety of sources, including wells, rivers, reservoirs, and ponds. They meet a variety of agricultural needs depending on water volume, pressure, and energy efficiency and come in a variety of types, such as centrifugal, submersible, and positive displacement pumps. Modern models now include features like automated controls and solar power compatibility, which lower operating costs and energy consumption.

According to the World Bank, agriculture is indeed a significant contributor to the global economy, accounting for approximately 4% of the world's GDP. In some developing nations, it constitutes more than 25% of GDP.

Market Dynamics:

Driver:

Growing demand for food worldwide

In order to guarantee global food security, agricultural output must be increased immediately, as the world's population is expected to surpass 9 billion people by 2050. This has forced farmers and farming businesses to embrace technologies that increase crop productivity and efficiency. Especially in areas with little rainfall, agriculture pumps are essential for supplying water to irrigation systems. They support steady water availability, which is essential for crops with high yields like maize, wheat, and rice. Furthermore, driving the adoption of sophisticated pump systems is the demand for fresh produce, which frequently necessitates precise irrigation.

Restraint:

Expensive initial investment costs

Agriculture pumps are necessary for contemporary farming, but small and marginal farmers, particularly those in developing nations, may find the upfront costs of buying and setting up sophisticated pump systems to be unaffordable. Even though solar-powered pumps and Internet of Things-enabled systems save energy over time, they come with a hefty upfront cost for setup, hardware, and infrastructure. The cost burden is further increased for farmers who frequently have to invest in compatible irrigation systems, such as sprinkler or drip setups. Additionally, this problem is made worse by limited access to financing and credit options, especially for farmers in rural and economically underdeveloped areas.

Opportunity:

Use of solar-powered pumps in developing economies

The transition to renewable energy sources offers solar-powered agricultural pumps a big chance. Solar-powered pumps are the perfect option in many parts of Africa, Asia, and Latin America with limited access to electricity because of their abundance of sunshine. Subsidies, incentives, and financial support are being offered by governments and international organizations more frequently to encourage solar irrigation. Moreover, solar-powered pumps are now more economical and effective owing to developments in photovoltaic technology, which has opened the door for their widespread use. This opportunity is especially significant in rural off-grid areas where traditional energy sources are either unreliable or unavailable.

Threat:

Rivalry with other irrigation technologies

The market for agricultural pumps is under threat from the increasing use of alternative irrigation technologies like gravity-fed systems and low-energy precision application (LEPA) systems. These systems are a desirable choice for farmers trying to cut expenses because they frequently require little to no energy inputs. Furthermore, sophisticated rainwater harvesting systems and water recycling techniques are becoming more popular as environmentally friendly substitutes for conventional irrigation techniques, which lessen the need for agricultural pumps.

Covid-19 Impact:

Due to supply chain disruptions, production delays, and logistical difficulties brought on by lockdowns and restrictions, the COVID-19 pandemic had a major effect on the market for agricultural pumps. Component and raw material shortages affected many manufacturers, raising prices and delaying deliveries. Additionally, the adoption of sophisticated and energy-efficient pumps was also slowed down by farmers' financial limitations and economic uncertainties, particularly in developing nations. In order to guarantee food security, governments and organizations have prioritized investments in irrigation infrastructure and technology, which may increase demand for agricultural pumps in the long run.

The 1-3-meter segment is expected to be the largest during the forecast period

The 1-3 meter segment is expected to account the largest market share in the agriculture pumps during the forecast period, as it is being ideal for small#- #to medium-sized irrigation requirements, which are the mainstay of agricultural activities in many areas. For shallow water sources like small wells, ponds, and surface water, this segment is frequently chosen by farmers because it provides the best possible balance between performance and affordability. Furthermore, these pumps are perfect for areas with limited resources because they are simple to install, require little upkeep, and work with a range of power sources, including solar and electric systems.

The Solar Power segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the solar power segment is predicted to witness at the highest

CAGR. The growing need for economical and environmentally friendly irrigation solutions is driving this expansion. Because they can provide off-grid water pumping solutions, solar-powered pumps are preferred, particularly in rural and isolated areas with erratic electricity supplies. This market is anticipated to grow significantly due to the increased focus on renewable energy and government incentives for solar-powered devices. Additionally, solar-powered pumps are a desirable alternative for contemporary agricultural practices due to the environmental advantages of solar power and the falling cost of solar panels.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. The extensive agricultural landscape is the main factor behind this dominance, especially in nations like China, India, and Southeast Asia, where crop production depends heavily on irrigation. The adoption of advanced pump technologies has increased as a result of the region's expanding population and rising demand for productive farming methods. Furthermore, driving the market's expansion in this area are government programs that encourage the use of solar-powered pumps and the mechanization of agriculture.

Region with highest CAGR:

Over the forecast period, the Middle East and Africa (MEA) region is anticipated to exhibit the highest CAGR. The growing demand for effective irrigation systems in arid and semi-arid areas, where water scarcity is a major problem, is what is causing this growth. Solar-powered pumps are among the cutting-edge irrigation technologies that governments and farmers are increasingly using to maximize water use and boost agricultural output. Moreover, the market for agricultural pumps is expected to grow rapidly in the MEA region due to the fact that agriculture is a significant economic driver in many of these nations, as well as the increased emphasis on sustainable farming methods and renewable energy sources.

Key players in the market

Some of the key players in Agriculture Pumps market include CRI Pumps Private Limited, Franklin Electric Co Inc, Grundfos Holding A/S, Xylem Inc., Texmo Pumps and Systems Limited, Mahindra EPC Irrigation Limited, Valmont Industries, Inc., Flowserve Corporation, CNP Pumps India Pvt Ltd, Kirloskar Brothers Limited, Lubi Industries LLP, Lindsay Corporation, Ebara Corporation, Mono Pumps Limited and Shimge Pump

Industry Group Co., Ltd.

Key Developments:

In August 2024, Flowserve Corporation announced that it has signed a definitive agreement to acquire MOGAS Industries (“MOGAS”), a privately held, Houston-based provider of mission-critical severe service valves and associated aftermarket services for \$290 million with a potential \$15 million earnout. The Transaction is expected to close in the fourth quarter of 2024.

In January 2024, Xylem has entered into a three-year contract with Tuscany's Publiacqua to enhance the resilience and operational efficiency of Medio Valdarno's water infrastructure. The agreement aims to revolutionize the region's water supply system by leveraging cutting-edge technologies including meter data analytics, real-time leak detection modules, and predictive maintenance tools.

In April 2023, Valmont® Industries, Inc announced a partnership with EarthSense, a global provider of award-winning air quality monitors and advanced pollution modelling systems. Valmont will offer the Zephyr® Air Quality Sensor through the partnership.

Types Covered:

Rotodynamic Pumps

Positive Displacement Pumps

Material Types Covered:

Iron

Bronze

Aluminium

Stainless Steel

Other Material Types

Horsepowers Covered:

0.5-3

4-15

16-30

31-40

>40

Head Sizes Covered:

Up to 1 meter

1-3-meter

3-6 meter

6-10 meter

10-15 meter

Above 15 meter

Power Sources Covered:

Electricity Grid-connection

Diesel/Petrol

Solar Power

End Users Covered:

Irrigation

Livestock Watering

Aquaculture

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 End User Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL AGRICULTURE PUMPS MARKET, BY TYPE

- 5.1 Introduction
- 5.2 Rotodynamic Pumps
 - 5.2.1 Centrifugal Pumps
 - 5.2.2 Axial Flow
 - 5.2.3 Mixed Flow
- 5.3 Positive Displacement Pumps
 - 5.3.1 Gear Pumps
 - 5.3.2 Diaphragm Pumps
 - 5.3.3 Piston Pumps
 - 5.3.4 Screw Pumps
 - 5.3.5 Peristaltic Pumps

6 GLOBAL AGRICULTURE PUMPS MARKET, BY MATERIAL TYPE

- 6.1 Introduction
- 6.2 Iron
- 6.3 Bronze
- 6.4 Aluminium
- 6.5 Stainless Steel
- 6.6 Other Material Types

7 GLOBAL AGRICULTURE PUMPS MARKET, BY HORSEPOWER

- 7.1 Introduction
- 7.2 0.5-3
- 7.3 4-15
- 7.4 16-30
- 7.5 31-40
- 7.6 >40

8 GLOBAL AGRICULTURE PUMPS MARKET, BY HEAD SIZE

- 8.1 Introduction
- 8.2 Up to 1 meter
- 8.3 1-3-meter
- 8.4 3-6 meter
- 8.5 6-10 meter
- 8.6 10-15 meter

8.7 Above 15 meter

9 GLOBAL AGRICULTURE PUMPS MARKET, BY POWER SOURCE

9.1 Introduction

9.2 Electricity Grid-connection

9.3 Diesel/Petrol

9.4 Solar Power

10 GLOBAL AGRICULTURE PUMPS MARKET, BY END USER

10.1 Introduction

10.2 Irrigation

10.3 Livestock Watering

10.4 Aquaculture

11 GLOBAL AGRICULTURE PUMPS MARKET, BY GEOGRAPHY

11.1 Introduction

11.2 North America

11.2.1 US

11.2.2 Canada

11.2.3 Mexico

11.3 Europe

11.3.1 Germany

11.3.2 UK

11.3.3 Italy

11.3.4 France

11.3.5 Spain

11.3.6 Rest of Europe

11.4 Asia Pacific

11.4.1 Japan

11.4.2 China

11.4.3 India

11.4.4 Australia

11.4.5 New Zealand

11.4.6 South Korea

11.4.7 Rest of Asia Pacific

11.5 South America

- 11.5.1 Argentina
- 11.5.2 Brazil
- 11.5.3 Chile
- 11.5.4 Rest of South America
- 11.6 Middle East & Africa
 - 11.6.1 Saudi Arabia
 - 11.6.2 UAE
 - 11.6.3 Qatar
 - 11.6.4 South Africa
 - 11.6.5 Rest of Middle East & Africa

12 KEY DEVELOPMENTS

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

13 COMPANY PROFILING

- 13.1 CRI Pumps Private Limited
- 13.2 Franklin Electric Co Inc
- 13.3 Grundfos Holding A/S
- 13.4 Xylem Inc.
- 13.5 Texmo Pumps and Systems Limited
- 13.6 Mahindra EPC Irrigation Limited
- 13.7 Valmont Industries, Inc.
- 13.8 Flowserve Corporation
- 13.9 CNP Pumps India Pvt Ltd
- 13.10 Kirloskar Brothers Limited
- 13.11 Lubi Industries LLP
- 13.12 Lindsay Corporation
- 13.13 Ebara Corporation
- 13.14 Mono Pumps Limited
- 13.15 Shimge Pump Industry Group Co., Ltd.

List Of Tables

LIST OF TABLES

- Table 1 Global Agriculture Pumps Market Outlook, By Region (2022-2030) (\$MN)
- Table 2 Global Agriculture Pumps Market Outlook, By Type (2022-2030) (\$MN)
- Table 3 Global Agriculture Pumps Market Outlook, By Rotodynamic Pumps (2022-2030) (\$MN)
- Table 4 Global Agriculture Pumps Market Outlook, By Centrifugal Pumps (2022-2030) (\$MN)
- Table 5 Global Agriculture Pumps Market Outlook, By Axial Flow (2022-2030) (\$MN)
- Table 6 Global Agriculture Pumps Market Outlook, By Mixed Flow (2022-2030) (\$MN)
- Table 7 Global Agriculture Pumps Market Outlook, By Positive Displacement Pumps (2022-2030) (\$MN)
- Table 8 Global Agriculture Pumps Market Outlook, By Gear Pumps (2022-2030) (\$MN)
- Table 9 Global Agriculture Pumps Market Outlook, By Diaphragm Pumps (2022-2030) (\$MN)
- Table 10 Global Agriculture Pumps Market Outlook, By Piston Pumps (2022-2030) (\$MN)
- Table 11 Global Agriculture Pumps Market Outlook, By Screw Pumps (2022-2030) (\$MN)
- Table 12 Global Agriculture Pumps Market Outlook, By Peristaltic Pumps (2022-2030) (\$MN)
- Table 13 Global Agriculture Pumps Market Outlook, By Material Type (2022-2030) (\$MN)
- Table 14 Global Agriculture Pumps Market Outlook, By Iron (2022-2030) (\$MN)
- Table 15 Global Agriculture Pumps Market Outlook, By Bronze (2022-2030) (\$MN)
- Table 16 Global Agriculture Pumps Market Outlook, By Aluminium (2022-2030) (\$MN)
- Table 17 Global Agriculture Pumps Market Outlook, By Stainless Steel (2022-2030) (\$MN)
- Table 18 Global Agriculture Pumps Market Outlook, By Other Material Types (2022-2030) (\$MN)
- Table 19 Global Agriculture Pumps Market Outlook, By Horsepower (2022-2030) (\$MN)
- Table 20 Global Agriculture Pumps Market Outlook, By 0.5-3 (2022-2030) (\$MN)
- Table 21 Global Agriculture Pumps Market Outlook, By 4-15 (2022-2030) (\$MN)
- Table 22 Global Agriculture Pumps Market Outlook, By 16-30 (2022-2030) (\$MN)
- Table 23 Global Agriculture Pumps Market Outlook, By 31-40 (2022-2030) (\$MN)
- Table 24 Global Agriculture Pumps Market Outlook, By >40 (2022-2030) (\$MN)
- Table 25 Global Agriculture Pumps Market Outlook, By Head Size (2022-2030) (\$MN)

Table 26 Global Agriculture Pumps Market Outlook, By Up to 1 meter (2022-2030) (\$MN)

Table 27 Global Agriculture Pumps Market Outlook, By 1-3-meter (2022-2030) (\$MN)

Table 28 Global Agriculture Pumps Market Outlook, By 3-6 meter (2022-2030) (\$MN)

Table 29 Global Agriculture Pumps Market Outlook, By 6-10 meter (2022-2030) (\$MN)

Table 30 Global Agriculture Pumps Market Outlook, By 10-15 meter (2022-2030) (\$MN)

Table 31 Global Agriculture Pumps Market Outlook, By Above 15 meter (2022-2030) (\$MN)

Table 32 Global Agriculture Pumps Market Outlook, By Power Source (2022-2030) (\$MN)

Table 33 Global Agriculture Pumps Market Outlook, By Electricity Grid-connection (2022-2030) (\$MN)

Table 34 Global Agriculture Pumps Market Outlook, By Diesel/Petrol (2022-2030) (\$MN)

Table 35 Global Agriculture Pumps Market Outlook, By Solar Power (2022-2030) (\$MN)

Table 36 Global Agriculture Pumps Market Outlook, By End User (2022-2030) (\$MN)

Table 37 Global Agriculture Pumps Market Outlook, By Irrigation (2022-2030) (\$MN)

Table 38 Global Agriculture Pumps Market Outlook, By Livestock Watering (2022-2030) (\$MN)

Table 39 Global Agriculture Pumps Market Outlook, By Aquaculture (2022-2030) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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