

Multistage Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Application (Water Supply, Oil & Gas, Wastewater Treatment, Chemical Processing), By End-User (Residential, Commercial, Industrial), By Pump Type (Vertical Multistage Pumps, Horizontal Multistage Pumps, Submersible Multistage Pumps), By Material (Stainless Steel, Cast Iron, Plastic, Bronze), By Region, By Competition, 2020-2030F

<https://marketpublishers.com/r/M1C7D7045920EN.html>

Date: September 2025

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: M1C7D7045920EN

Abstracts

Market Overview

The Multistage Pump Market was valued at USD 11.31 Billion in 2024 and is expected to reach USD 13.71 Billion by 2030 with a CAGR of 3.11%. The multistage pump market refers to the global industry surrounding the design, manufacturing, distribution, and application of multistage pumps, which are specialized pumping systems equipped with multiple impellers to generate higher pressure levels than single-stage pumps. These pumps are widely used across industries such as power generation, oil and gas, chemical processing, water treatment, and mining, where the movement of fluids at high pressures and over long distances is essential.

The market encompasses various pump types, including horizontal and vertical configurations, tailored to diverse operational environments and performance requirements. Key functions of multistage pumps include boosting water pressure in municipal supply networks, handling boiler feed in thermal power plants, transporting hydrocarbons in refineries, supporting irrigation in agriculture, and enabling critical

processes in industrial plants. The demand for multistage pumps is largely driven by the global expansion of infrastructure, rising energy requirements, and the growing need for efficient water management solutions.

Key Market Drivers

Rising Demand from the Water and Wastewater Management Sector

The increasing global emphasis on water security, urbanization, and sustainable resource management is a major driver of the multistage pump market, as these pumps are integral to water supply, treatment, and distribution systems. Rapid urban growth and industrial expansion have significantly elevated the demand for potable water and efficient wastewater treatment, creating large-scale opportunities for multistage pumps known for their energy efficiency and ability to handle high-pressure requirements across long distances.

Governments and municipalities across both developed and developing economies are investing heavily in upgrading water infrastructure, reducing leakages, and ensuring efficient supply chains, all of which require reliable and high-capacity pumping systems. Moreover, water scarcity in several regions has intensified the need for advanced treatment plants that can recycle and reuse water for industrial and agricultural purposes, further boosting demand. Multistage pumps are particularly suited for desalination projects, a sector experiencing significant investment due to rising freshwater shortages, especially in arid and semi-arid regions.

Additionally, stringent regulations regarding wastewater discharge are compelling industries such as chemicals, food and beverage, and pharmaceuticals to install efficient treatment systems, where multistage pumps play a critical role in ensuring compliance. The rise in smart city projects and urban renewal programs has also contributed to the adoption of modern pumping systems, as municipalities prioritize energy-efficient technologies for sustainable water distribution networks. In addition, the growing focus on digital integration and predictive maintenance has opened the door for advanced multistage pumps equipped with sensors and monitoring systems, enabling real-time performance tracking and reducing downtime.

With the global push toward sustainability, energy-efficient pumping solutions are being increasingly mandated, thereby positioning multistage pumps as essential components in both municipal and industrial water management strategies. Collectively, the expanding water and wastewater management sector, combined with policy-driven

infrastructure development, continues to fuel sustained growth for the multistage pump market. Global water and wastewater treatment projects expected to serve over 2 billion people by 2030. More than 35,000 new municipal and industrial water treatment plants projected worldwide by 2027. Multistage pumps are anticipated to handle over 50% of high-pressure water transfer applications globally in the coming years. Asia-Pacific and Middle East regions expected to account for nearly 45% of global water infrastructure projects by 2026. Increasing focus on sustainable water management is projected to drive adoption of advanced pumping solutions in over 60 countries by 2028.

Key Market Challenges

High Capital and Operational Costs Limiting Widespread Adoption

The multistage pump market faces a significant challenge in the form of high capital and operational costs, which limit its wider adoption, particularly in cost-sensitive industries and emerging economies. Multistage pumps, though highly efficient and versatile, require considerable investment for procurement due to their complex engineering design, specialized materials, and advanced manufacturing requirements. These pumps are built to handle high-pressure applications in industries such as oil and gas, power generation, mining, and water treatment, where durability and reliability are critical.

However, the upfront costs of installation, along with the need for specialized foundations, piping systems, and integration with automation controls, pose substantial financial barriers for smaller enterprises and municipal projects operating under constrained budgets. Beyond capital expenses, the operational costs associated with energy consumption, regular servicing, spare parts replacement, and skilled labor requirements contribute to long-term expenditure. Multistage pumps are energy-intensive, and in regions where electricity tariffs are high, this adds a recurring burden on operating costs, particularly for applications requiring continuous operation. Moreover, maintenance is another cost driver, as these pumps often require periodic inspection and repair to ensure performance efficiency, demanding trained technicians and specialized components that are not always readily available.

In developing economies, where budget allocation for infrastructure and industrial projects is often limited, decision-makers may opt for less efficient single-stage pumps or alternative technologies with lower initial costs, even though they offer reduced performance. This behavior creates a competitive disadvantage for multistage pumps in the global market. Additionally, rising costs of raw materials such as stainless steel, cast iron, and alloys further inflate the price of pump manufacturing, directly impacting

customer affordability and procurement cycles. The lack of financing mechanisms or leasing models in several regions also hampers the ability of smaller industries to adopt these solutions.

With the increasing global focus on cost optimization and efficiency, industries are becoming more cautious in their investment strategies, prioritizing technologies that offer faster payback periods and lower lifecycle costs. As a result, despite their superior performance in handling complex fluid applications, multistage pumps often face resistance in large-scale adoption due to the financial burden they impose on customers. This challenge is compounded by competition from alternative pumping systems that may provide acceptable efficiency at lower costs, further restricting the market's growth potential.

Therefore, unless manufacturers introduce innovative financing models, cost-effective product designs, and energy-efficient technologies that minimize operational expenses, the multistage pump market is likely to face continued barriers in achieving widespread penetration across all industrial and geographical segments.

Key Market Trends

Rising Adoption of Multistage Pumps in Industrial and Infrastructure Projects

The global multistage pump market is increasingly shaped by the growing adoption of these pumps across industrial and large-scale infrastructure projects, driven by their ability to provide high pressure, efficiency, and reliability for critical applications. As industries such as power generation, oil and gas, water treatment, and manufacturing expand their operational footprints, the demand for pumps that can handle high-pressure operations without compromising on energy efficiency continues to grow. In particular, multistage pumps are proving essential for boiler feed applications, cooling water circulation, and high-pressure cleaning processes, offering robust performance in environments where operational reliability is non-negotiable.

Infrastructure development is also contributing significantly, as urbanization accelerates across emerging economies and government-backed investments in water supply and wastewater management rise. With many regions facing water scarcity, efficient pumping solutions that minimize energy consumption and ensure consistent delivery are becoming central to infrastructure planning. Furthermore, industries are moving towards automation and digitalization of operations, which has opened new opportunities for the integration of smart and sensor-based multistage pumps. These

smart systems not only ensure predictive maintenance and reduced downtime but also deliver improved efficiency and cost savings.

In addition, as developing countries increasingly focus on industrial self-reliance, local manufacturing and deployment of multistage pumps are gaining momentum, boosting regional demand. This trend is also supported by the rapid growth of industrial sectors in Asia-Pacific and the Middle East, where governments are heavily investing in petrochemical plants, power stations, and large-scale construction.

The shift towards sustainable operations is another factor influencing adoption, as businesses actively seek equipment with lower lifecycle costs, reduced environmental impact, and high durability. Overall, the industrial and infrastructure sectors represent one of the most important demand drivers for multistage pumps, and this trajectory is expected to accelerate as both established and emerging economies prioritize industrial expansion, energy efficiency, and reliable fluid handling systems.

Key Market Players

KSB SE & Co. KGaA

Flowserve Corporation

Sulzer Ltd.

Grundfos Holding A/S

Xylem Inc.

Ebara Corporation

The Weir Group PLC

WILO SE

Pentair plc

SPX FLOW, Inc.

Report Scope:

In this report, the Global Multistage Pump Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Multistage Pump Market, By Application:

Water Supply

Oil & Gas

Wastewater Treatment

Chemical Processing

Multistage Pump Market, By End-User:

Residential

Commercial

Industrial

Multistage Pump Market, By Pump Type:

Vertical Multistage Pumps

Horizontal Multistage Pumps

Submersible Multistage Pumps

Multistage Pump Market, By Material:

Stainless Steel

Cast Iron

Plastic

Bronze

Multistage Pump Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Multistage Pump Market.

Available Customizations:

Global Multistage Pump 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL MULTISTAGE PUMP MARKET OUTLOOK

- 5.1. Market Size & Forecast

- 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Application (Water Supply, Oil & Gas, Wastewater Treatment, Chemical Processing)
 - 5.2.2. By End-User (Residential, Commercial, Industrial)
 - 5.2.3. By Pump Type (Vertical Multistage Pumps, Horizontal Multistage Pumps, Submersible Multistage Pumps)
 - 5.2.4. By Material (Stainless Steel, Cast Iron, Plastic, Bronze)
 - 5.2.5. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

6. NORTH AMERICA MULTISTAGE PUMP MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Application
 - 6.2.2. By End-User
 - 6.2.3. By Pump Type
 - 6.2.4. By Material
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Multistage Pump Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application
 - 6.3.1.2.2. By End-User
 - 6.3.1.2.3. By Pump Type
 - 6.3.1.2.4. By Material
 - 6.3.2. Canada Multistage Pump Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Application
 - 6.3.2.2.2. By End-User
 - 6.3.2.2.3. By Pump Type
 - 6.3.2.2.4. By Material

6.3.3. Mexico Multistage Pump Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Application

6.3.3.2.2. By End-User

6.3.3.2.3. By Pump Type

6.3.3.2.4. By Material

7. EUROPE MULTISTAGE PUMP MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Application

7.2.2. By End-User

7.2.3. By Pump Type

7.2.4. By Material

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Multistage Pump Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.2. By Application

7.3.3. By End-User

7.3.4. By Pump Type

7.3.5. By Material

7.3.6. United Kingdom Multistage Pump Market Outlook

7.3.6.1. Market Size & Forecast

7.3.6.1.1. By Value

7.3.6.2. Market Share & Forecast

7.3.6.2.1. By Application

7.3.6.2.2. By End-User

7.3.6.2.3. By Pump Type

7.3.6.2.4. By Material

7.3.7. Italy Multistage Pump Market Outlook

7.3.7.1. Market Size & Forecast

7.3.7.1.1. By Value

- 7.3.7.2. Market Share & Forecast
 - 7.3.7.2.1. By Application
 - 7.3.7.2.2. By End-User
 - 7.3.7.2.3. By Pump Type
 - 7.3.7.2.4. By Material
- 7.3.8. France Multistage Pump Market Outlook
 - 7.3.8.1. Market Size & Forecast
 - 7.3.8.1.1. By Value
 - 7.3.8.2. Market Share & Forecast
 - 7.3.8.2.1. By Application
 - 7.3.8.2.2. By End-User
 - 7.3.8.2.3. By Pump Type
 - 7.3.8.2.4. By Material
- 7.3.9. Spain Multistage Pump Market Outlook
 - 7.3.9.1. Market Size & Forecast
 - 7.3.9.1.1. By Value
 - 7.3.9.2. Market Share & Forecast
 - 7.3.9.2.1. By Application
 - 7.3.9.2.2. By End-User
 - 7.3.9.2.3. By Pump Type
 - 7.3.9.2.4. By Material

8. ASIA-PACIFIC MULTISTAGE PUMP MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Application
 - 8.2.2. By End-User
 - 8.2.3. By Pump Type
 - 8.2.4. By Material
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Multistage Pump Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.1.2.2. By End-User

- 8.3.1.2.3. By Pump Type
- 8.3.1.2.4. By Material
- 8.3.2. India Multistage Pump Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application
 - 8.3.2.2.2. By End-User
 - 8.3.2.2.3. By Pump Type
 - 8.3.2.2.4. By Material
- 8.3.3. Japan Multistage Pump Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
 - 8.3.3.2.2. By End-User
 - 8.3.3.2.3. By Pump Type
 - 8.3.3.2.4. By Material
- 8.3.4. South Korea Multistage Pump Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Application
 - 8.3.4.2.2. By End-User
 - 8.3.4.2.3. By Pump Type
 - 8.3.4.2.4. By Material
- 8.3.5. Australia Multistage Pump Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Application
 - 8.3.5.2.2. By End-User
 - 8.3.5.2.3. By Pump Type
 - 8.3.5.2.4. By Material

9. SOUTH AMERICA MULTISTAGE PUMP MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Application

9.2.2. By End-User

9.2.3. By Pump Type

9.2.4. By Material

9.2.5. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Multistage Pump Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Application

9.3.1.2.2. By End-User

9.3.1.2.3. By Pump Type

9.3.1.2.4. By Material

9.3.2. Argentina Multistage Pump Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Application

9.3.2.2.2. By End-User

9.3.2.2.3. By Pump Type

9.3.2.2.4. By Material

9.3.3. Colombia Multistage Pump Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Application

9.3.3.2.2. By End-User

9.3.3.2.3. By Pump Type

9.3.3.2.4. By Material

10. MIDDLE EAST AND AFRICA MULTISTAGE PUMP MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Application

10.2.2. By End-User

- 10.2.3. By Pump Type
- 10.2.4. By Material
- 10.2.5. By Country
- 10.3. Middle East and Africa: Country Analysis
 - 10.3.1. South Africa Multistage Pump Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Application
 - 10.3.1.2.2. By End-User
 - 10.3.1.2.3. By Pump Type
 - 10.3.1.2.4. By Material
 - 10.3.2. Saudi Arabia Multistage Pump Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Application
 - 10.3.2.2.2. By End-User
 - 10.3.2.2.3. By Pump Type
 - 10.3.2.2.4. By Material
 - 10.3.3. UAE Multistage Pump Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Application
 - 10.3.3.2.2. By End-User
 - 10.3.3.2.3. By Pump Type
 - 10.3.3.2.4. By Material
 - 10.3.4. Kuwait Multistage Pump Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Application
 - 10.3.4.2.2. By End-User
 - 10.3.4.2.3. By Pump Type
 - 10.3.4.2.4. By Material
 - 10.3.5. Turkey Multistage Pump Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Application

10.3.5.2.2. By End-User

10.3.5.2.3. By Pump Type

10.3.5.2.4. By Material

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. COMPANY PROFILES

13.1. KSB SE & Co. KGaA

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel/Key Contact Person

13.1.5. Key Product/Services Offered

13.2. Flowserve Corporation

13.3. Sulzer Ltd.

13.4. Grundfos Holding A/S

13.5. Xylem Inc.

13.6. Ebara Corporation

13.7. The Weir Group PLC

13.8. WILO SE

13.9. Pentair plc

13.10. SPX FLOW, Inc.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Multistage Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Application (Water Supply, Oil & Gas, Wastewater Treatment, Chemical Processing), By End-User (Residential, Commercial, Industrial), By Pump Type (Vertical Multistage Pumps, Horizontal Multistage Pumps, Submersible Multistage Pumps), By Material (Stainless Steel, Cast Iron, Plastic, Bronze), By Region, By Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/M1C7D7045920EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M1C7D7045920EN.html>