

Centrifugal Pump Market Forecasts to 2034 – Global Analysis By Type (Single-stage Pump, Multi-stage Pump, Axial Flow Pump, Radial Flow Pump and Mixed Flow Pump), Design, Material, Flow Rate, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Centrifugal Pump Market is accounted for \$42.7 billion in 2026 and is expected to reach \$60.7 billion by 2034 growing at a CAGR of 4.5% during the forecast period. Centrifugal pumps are commonly utilized machines that transport liquids by transforming rotational motion into fluid pressure. An impeller rotates at high speed, generating velocity and pressure that push fluid through the casing. They are preferred for their straightforward construction, steady discharge, and capability to move high volumes effectively. Typical uses include municipal water systems, agriculture, chemical industries, and manufacturing facilities. Efficiency is influenced by parameters such as flow capacity, head, and liquid characteristics, allowing these pumps to serve diverse applications where dependable, continuous, and efficient fluid movement is essential in modern engineering contexts.

According to the Hydraulic Institute (HI), rotodynamic (centrifugal) pump efficiency can be predicted and optimized, with system improvements offering 20–30% energy savings.

Market Dynamics:

Driver:

Growing demand for water and wastewater management

The rising need for efficient water and wastewater management is significantly driving the centrifugal pump market. Increasing urban populations, industrial activities, and infrastructure development have heightened the demand for dependable water distribution and sewage systems. Centrifugal pumps are widely used for water transfer, wastewater treatment, and desalination operations. Government initiatives and investments in water infrastructure are further supporting market growth. Moreover, concerns regarding water shortages and environmental protection are promoting the use of advanced pumping technologies, positioning centrifugal pumps as vital equipment in sustainable water management systems across developed and developing regions globally.

Restraint:

High energy consumption and operational costs

Elevated energy usage and operating expenses present a major challenge for the centrifugal pump market. Continuous operation requires consistent power input, resulting in high electricity consumption, particularly in industrial environments. Factors such as inefficient design, equipment degradation, and system inefficiencies further raise energy requirements. Increasing energy costs globally place additional pressure on users, limiting adoption in price-sensitive sectors. Moreover, ongoing maintenance and repair costs contribute to overall expenditures, affecting return on investment. These financial concerns can hinder the widespread use of centrifugal pumps, especially in industries seeking cost-efficient and energy-saving alternatives for fluid handling applications worldwide.

Opportunity:

Increasing adoption of smart and energy-efficient pump technologies

The rising use of intelligent and energy-saving pump technologies offers strong growth potential for the centrifugal pump market. Developments in IoT, automation, and digital monitoring allow users to track performance, predict maintenance needs, and enhance energy efficiency. These improvements lower operating expenses and increase system dependability, making such pumps more appealing across industries. Additionally, regulatory support for sustainable and energy-efficient solutions is driving adoption. As industrial systems become more advanced, the need for smart pumping solutions is increasing, providing lucrative opportunities for companies to innovate and expand their presence in the global centrifugal pump market.

Threat:

Intense competition from alternative pump technologies

Strong competition from other pump technologies presents a major challenge for the centrifugal pump market. Options like positive displacement, diaphragm, and peristaltic pumps provide better efficiency in handling thick, abrasive, or delicate fluids. These alternatives are increasingly chosen for specialized uses where centrifugal pumps are less effective. As industries prioritize tailored and high-performance solutions, the adoption of competing technologies is rising. Ongoing advancements by manufacturers of alternative pumps further increase competitive pressure, which may reduce the demand for centrifugal pumps and restrict their growth in certain industrial applications worldwide.

Covid-19 Impact:

The centrifugal pump market experienced both challenges and opportunities during the COVID-19 pandemic. Early stages saw interruptions in supply chains, workforce limitations, and halted industrial operations, resulting in decreased production and delayed installations. Major sectors such as energy, construction, and manufacturing witnessed reduced demand. In contrast, essential industries including water treatment, healthcare, and pharmaceuticals continued to require pumping solutions, helping sustain the market. As economies recovered, increased focus on infrastructure development and hygiene-related projects boosted demand. This recovery phase has supported the growth of centrifugal pumps, reinforcing their importance in critical applications across global industrial and municipal sectors consistently.

The single-stage pump segment is expected to be the largest during the forecast period

The single-stage pump segment is expected to account for the largest market share during the forecast period owing to its straightforward construction, affordability, and extensive usage across industries. Featuring a single impeller, these pumps are easy to operate, install, and maintain, making them a practical choice for many applications. They are commonly utilized in water distribution, irrigation, heating and cooling systems, and various industrial operations requiring moderate pressure levels. Their dependable performance and lower capital cost increase their adoption across different sectors. Furthermore, their efficiency in managing high fluid volumes contributes significantly to their leading position in the overall centrifugal pump market.

The water & wastewater segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the water & wastewater segment is predicted to witness the highest growth rate, driven by rising emphasis on sustainable water management and sanitation systems. Increasing population levels and urban expansion are creating strong demand for reliable water distribution and sewage treatment infrastructure. Significant investments by governments in recycling, desalination, and modern water management technologies are boosting market expansion. Centrifugal pumps play a critical role in handling and transporting fluids within these systems. Additionally, heightened environmental awareness and strict regulatory frameworks are encouraging the use of efficient pumping solutions in water and wastewater applications worldwide.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, supported by fast-paced industrial growth, expanding urban areas, and ongoing infrastructure development in countries like China, India, and Southeast Asia. Key industries such as manufacturing, energy, agriculture, and water management heavily rely on centrifugal pumps, driving strong demand. Government programs focused on urban development, irrigation, and industrial projects further boost the market. Moreover, rising investments in construction and energy sectors, coupled with increasing population and water requirements, enhance the need for efficient pumping solutions, establishing Asia-Pacific as the most prominent regional market worldwide.

Region with highest CAGR:

Over the forecast period, the Rest of the World (RoW) region is anticipated to exhibit the highest CAGR, driven by rising investments in water management systems, oil and gas developments, and industrial expansion. Water scarcity challenges are encouraging the construction of desalination and wastewater facilities, increasing the demand for centrifugal pumps. Growing urban populations are also fueling the need for reliable water supply networks. Furthermore, development in mining and energy industries contributes to market expansion. Supportive government policies and increasing foreign investments in infrastructure are boosting adoption, making this region the fastest-growing market worldwide.

Key players in the market

Some of the key players in Centrifugal Pump Market include Grundfos Holding A/S, Xylem Inc., Flowserve Corporation, Sulzer Ltd., KSB SE & Co. KGaA, Ebara Corporation, Wilo SE, ITT Inc, Pentair plc, Kirloskar Brothers Limited, IDEX Corporation, SPX FLOW, Inc., Torishima Pump Mfg. Co., Ltd., Tsurumi Manufacturing Co., Ltd., Weir Group, Baker Hughes, Alfa Laval and CIRCOR International Inc.

Key Developments:

In June 2026, Xylem announced a landmark agreement with Dow to design, build and operate advanced water systems at its large-scale industrial complex in Fort Saskatchewan, Alberta, Canada. The agreement expands Xylem's long-standing collaboration with Dow, supporting the increased operations tied to Dow's Path2Zero project. Under the agreement, Xylem will deliver a full end-to-end solution that includes engineering, system design, and long-term operation.

In March 2026, Baker Hughes and XGS Energy announced a strategic collaboration and initial order for Baker Hughes engineering services to advance XGS's planned 150-megawatt geothermal project in New Mexico. The project, once developed, will support the delivery of clean, round-the-clock power to the Public Service Company of New Mexico's (PNM) grid in support of Meta's data center operations in the state.

Types Covered:

Single-stage Pump

Multi-stage Pump

Axial Flow Pump

Radial Flow Pump

Mixed Flow Pump

Designs Covered:

Overhung Impeller Pump

Between Bearing Pump

Vertically Suspended Pump

Materials Covered:

Stainless Steel

Cast Iron

Alloy Materials

Other Materials

Flow Rates Covered:

Low Flow

Medium Flow

High Flow

End Users Covered:

Water & Wastewater

Oil & Gas

Chemical Processing

Power Generation

Food & Beverage

Pharmaceuticals

Mining

Agriculture

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World
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