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Axial Flow Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Miniwatt, High Power), By Industry (Wastewater & Water, Oil & Gas, Petrochemical & Chemical, Food & Beverages, Mining, Others), By Application (Irrigation, Land Drainage, Flood Control, Recirculation, Water Treatment, Others), By Material (Aluminum, Cast Iron, Brass, Bronze, Ceramics, Nickel-Alloy), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/AF2F65CB7A61EN.html
Date: January 2026
Pages: 180
Price: US$ 4,500.00 (Single User License)
ID: AF2F65CB7A61EN

Abstracts

The Global Axial Flow Pump Market is projected to expand from USD 4.35 Billion in 2025 to USD 5.45 Billion by 2031, achieving a CAGR of 3.83%. Axial flow pumps are dynamic fluid handling mechanisms that use an impeller to propel liquid parallel to the pump shaft, specifically designed for applications requiring high volume at low heads. The market's growth is primarily anchored by the critical necessity for durable flood control infrastructure to manage climate-related risks and the extension of agricultural irrigation systems to ensure global food security. These foundational needs generate steady demand for heavy-duty pumping solutions in both developing and developed nations, driven by structural requirements rather than temporary technological trends.

However, market progression is notably hindered by the limited high-efficiency operating range inherent to these pumps. Operating outside the specific design point frequently results in cavitation and vibration, leading to elevated maintenance expenses and requiring the installation of costly variable speed drives. This financial burden is compounded by tightening economic conditions; according to the VDMA, global sales of machinery and equipment reached an estimated 3.26 trillion euros in 2024, representing

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a 1.5% decrease that restricts the capital available for new infrastructure investments.

Market Driver

Rising global investment in wastewater treatment infrastructure is fundamentally transforming the axial flow pump market, as governments focus on upgrading water networks to support rapid urbanization. These financial resources are being heavily directed toward extensive water transfer initiatives and the restoration of aging sewage systems, which rely on high-flow, low-head pumps for efficient water movement. This trend is particularly prominent in major Asian economies; according to the Ministry of Water Resources of China in September 2025, an official statement on national infrastructure progress indicated that total investment in water conservancy during the 14th Five-Year Plan is projected to surpass 5.4 trillion yuan. Such substantial funding ensures a continuous stream of procurement orders for the heavy-duty machinery essential for municipal and industrial wastewater management.

concurrently, the growing implementation of urban flood mitigation and drainage projects acts as a major catalyst for growth, driven by the urgent need to address rising sea levels and extreme weather events. Municipalities are enhancing stormwater drainage capacities, creating demand for robust axial flow pumps recognized for their rapid dewatering speeds. This surge in demand for climate-resilient infrastructure is evident in corporate performance; according to Sulzer Ltd's 'Annual Report 2024' released in February 2025, the company's Water and Industrial division recorded a 10.6% organic increase in order intake. This sector-wide momentum is further supported by KSB SE & Co. KGaA, which reported in 2025 a record order intake exceeding 3 billion euros for the 2024 fiscal year, bolstered by strong activity in water infrastructure.

Market Challenge

The expansion of the Global Axial Flow Pump Market is significantly restricted by the pump's inherent technical limitation regarding its narrow high-efficiency operating bandwidth. Unlike more versatile pumping options, axial flow designs must function close to their specific design point; deviations caused by variable flow requirements or fluctuating water levels often trigger excessive vibration and cavitation. This lack of operational flexibility compels facility operators to incur substantial additional costs, either through frequent maintenance to repair physical damage or through the mandatory installation of expensive variable speed drives to regulate flow. In

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applications such as agricultural irrigation or flood control, where conditions are dynamic, this need for precision becomes a financial liability that discourages cost-sensitive buyers.

This technical constraint severely impacts market growth when combined with a tightening industrial capital environment. The necessity for expensive auxiliary equipment to prevent failure renders these pumps less competitively priced compared to alternative designs that offer wider operating ranges without such high upfront investments. This economic hesitation is reflected in broader industry trends where capital expenditure is being curtailed. According to the VDMA, in late 2025, the forecast for real machinery production was confirmed at a decline of 5 percent for the year. Such a contraction in industrial production capacity suggests a reduced willingness to invest in infrastructure technologies that carry high operational risks or premium capital costs, thereby directly stalling the adoption of axial flow pumps in new projects.

Market Trends

The Integration of IoT-Enabled Smart Monitoring Systems is fundamentally reshaping the market by transitioning maintenance strategies from reactive to predictive models. Operators are increasingly adopting sensor-equipped axial flow pumps that provide real-time data on vibration, temperature, and flow anomalies, thereby preventing costly unplanned downtime in critical flood control and industrial applications. This digital transformation is driving significant financial growth for technology-forward manufacturers; according to Xylem Inc., February 2025, in the 'Fourth Quarter and Full Year 2024 Results', the company reported a total revenue of 8.6 billion dollars, a performance attributed significantly to the robust demand for intelligent water management and digital solutions.

Concurrently, the market is witnessing a decisive Integration with Renewable Energy Power Sources, as global decarbonization mandates force industries to align pumping operations with green energy grids. This trend involves not only powering pumps with solar or wind energy but also deploying specialized pumping systems for emerging energy transition sectors such as carbon capture and hydrogen production. The commercial viability of this shift is evident in recent industry performance; according to Flowserve Corporation, May 2025, in the '2024 ESG Report', the company recorded a 36 percent year-over-year increase in decarbonization-related bookings, underscoring the rapid industrial pivot toward climate-conscious pumping technologies.

Key Market Players

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KSB SE & Co. KGaA

Xylem Inc.

Flowserve Corporation

Wilo SE

Grundfos Holding A/S

Kirloskar Brothers Limited

Toshiba Corporation

SPX FLOW, Inc.

Report Scope

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

Axial Flow Pump Market, By Type

Miniwatt

High Power

Axial Flow Pump Market, By Industry

Wastewater & Water

Oil & Gas

Petrochemical & Chemical

Food & Beverages

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Mining

Others

Axial Flow Pump Market, By Application

Irrigation

Land Drainage

Flood Control

Recirculation

Water Treatment

Others

Axial Flow Pump Market, By Material

Aluminum

Cast Iron

Brass

Bronze

Ceramics

Nickel-Alloy

Axial Flow Pump Market, By Region

North America

United States

Canada

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- 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

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Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Axial Flow Pump Market.

Available Customizations:

Global Axial Flow Pump Market report with the given market data, TechSci 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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