

Centrifugal Pump Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Type (Overhung Impeller, Vertically Suspended, Between Bearing), By Impeller Type (Open, Partially Open, Enclosed), By Operation Type (Electric, Hydraulic, Air Driven), By Stage (Single-Stage, Multi-Stage), By End User (Commercial, Residential, Industrial (Water and Wastewater, Chemicals, Oil & Gas, Power, Others)), By Region, Competition

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Abstracts

Global Centrifugal Pump market is predicted to proliferate during the forecast period, due to the rising demand for water and wastewater management and growing demand for alternate power generation. The companies are progressively using centrifugal pumps as they are low maintenance capable of smooth flow, have proven reliability, are energy efficient and have corrosion resistance ability. Numerous innovations carried out in empowering the quality of modern pumps such as intervention of IoT technologies in the centrifugal pumps as a product, are helping service providers to offer an effective solution to the enterprises that are enhancing the features of centrifugal pump.

Centrifugal pump is a hydraulic device that transforms mechanical energy into hydraulic energy by using the fluid's centrifugal force. Every centrifugal pump has mechanical components that make the pump function. Shaft, impeller, casting, suction pipe, and delivery pipe are some of the key components which are being considered in centrifugal pumps. Typically, centrifugal pumps are designed for larger flows and for pumping

liquids with lower viscosities, where it can be as low as 0.1 cP. In general, centrifugal pumps are often appropriate for low pressure, high-capacity pumping applications of liquids with viscosities between 0.1 and 200 cP. These pumps are being used as a booster for domestic water supplies, irrigation, transferring bottled water, juice, and other beverages in beverages industries, pumping crude oil and slurry in the oil & gas industry with the use of power generation plants and refineries in petrochemical facilities and so on. Moreover, these pumps are being commonly considered for pumping water, acids, solvents, oils, bases, organics, and any 'thin' liquids in both domestic, agricultural, and industrial settings.

The centrifugal pump market has witnessed significant growth in the last few years. The centrifugal pump system has been integrated to address the growing need for more efficient operations in fluid transfer, suction, and fulfilling. The growing construction activities in the Oil & Gas, Chemical, Food & Beverages etc., Increasing Infrastructure Development and Growing Urbanization are propelling the centrifugal pump market have led to the increase in product demand. Moreover, rising initiatives by the government on wastewater treatment and increasing investments in wastewater treatment plants in emerging economies are also expected to witness significant demand in the future. Furthermore, centrifugal pump is gaining popularity as businesses are facilitating the use of single-stage centrifugal pumps for ventilation, water supply, air-conditioning and heating and agricultural / irrigation applications and industrial applications for pressure boosting and liquid transfer, ensuring simple structure low pressure operations. The use of centrifugal pump enables organizations to deliver timely services at reduced costs.

Rising Demand for Water and Wastewater Management

The demand for water is continuing to grow as the global population is growing. The government of many countries are implementing national water-saving initiative and smart water network, such as Community Drinking Water Schemes in India, China's five-year national water security plan, Safe Drinking Water Act (SDWA) in the United States, and many others. Through these initiatives, various associations are promoting reforms in key areas of water conservation, improvement of innovative development of water conservation, and modernizing the water management system. Such initiatives are enabling the adoption of advanced techniques and modern infrastructures such as advanced centrifugal pumps that are helping the conservation of water in most of the mountainous region. Thus, the rising demand for water and wastewater management are expected to increase the demand of centrifugal pump in the global market.

Rising Initiatives by the Government on Wastewater Treatment

The increasing focus on wastewater treatment have risen the global market for centrifugal pumps. The governmental entities are taking many environmental actions to reduce waste production. Countries across the world have put in place strict restrictions that forbid the illegal dumping of wastewater and even stricter regulations to prevent naturally poisoning rivers. As centrifugal pumps are used extremely in wastewater treatment plants for purification of wastewater, the demand for centrifugal pumps is growing. According to the US EPA (United States Environmental Protection Agency), no discharge zones (NDZ) and clean water act (CWA) were put in place to keep an eye on and control the discharge of untreated sewage, in 2022. China's Water Pollution Prevention and Control Law (WPPCL) implemented to stop unauthorized discharge. The Action Plan by MEP (Ministry of Environment Protection) for the prevention of water pollution with integrated wastewater discharge rules, is also a step in the right direction for the Indian government. These programmes put a lot of focus on maintaining good water quality and public health, which increases the demand for untreated wastewater regulation. As a result of the risk of waterborne diseases, developed and developing countries are starting to build wastewater treatment facilities in a variety of locations, which is accelerating the requirement of centrifugal pumps and therefore attributing the market's growth of centrifugal pumps in the global markets.

Growing Construction Activities Propelling the Centrifugal Pump Market

The growing construction activities in several industries such as construction of oil & gas refineries, manufacturing setup of food & beverages, and water treatment plants are propelling the growth of centrifugal pumps in the global market. In addition, centrifugal pumps are commonly used in oil refineries to transfer liquids between process units. The rising oil and gas activities across the world will continue to encourage the sales of centrifugal pumps. Around 90 percent of the pumps are centrifugal, during the refining and construction of oil & gas facilities. Industrial centrifugal pumps are witnessing a great demand from the steel, cement, chemical and pharmaceutical sectors. The construction sector is able to use these pumps to transport multiple materials at a fast speed in a short amount of time, owing to their low maintenance requirements, energy efficiency, and great versatility. Moreover, the utilization of centrifugal pumps during agriculture and fire protection activities along with the expansion of residential and commercial sectors are further driving the growth of centrifugal pumps in various countries. Furthermore, increasing investment in the construction industry and technical advancement in single-stage and multi-stage modern centrifugal pumps for the industries to enhance the capabilities by increasing the efficiency, are further driving the

market growth. Thus, the growth in the construction activities is propelling the demand of centrifugal pump market in the forecast period.

Market Segmentation

Based on type, the market is segmented into overhung impeller, vertically suspended, and between bearing. Based on impeller type, the market is segmented into open, partially open, and enclosed. Based on operation type, the market is segmented into electric, hydraulic, and air driven. Based on stage, the market is segmented into single stage and multi-stage. Based on end-user, the market is segmented into commercial, residential, and industrial. The industrial segment of the market is further split into water and wastewater, chemicals, oil & gas, power, and others. Regionally, the market is divided among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

Company Profiles

KSB SE & Co. KGaA, Flowserve Corporation, Schlumberger Limited, Baker Hughes Company, Ebara Corporation, ITT Inc., Weir Group PLC, Circor International, Inc., Sulzer Ltd., Xylem Inc. are among the major players that are driving the growth of the global centrifugal pump market.

Report Scope:

In this report, the global centrifugal pump market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Centrifugal Pump Market, By Type:

Overhung Impeller

Vertically Suspended

Between Bearing

Global Centrifugal Pump Market, By Impeller Type:

Open

Partially Open

Enclosed

Global Centrifugal Pump Market, By Operation Type:

Electric

Hydraulic

Air Driven

Global Centrifugal Pump Market, By Stage:

Single-Stage

Multi-Stage

Global Centrifugal Pump Market, By End User:

Commercial

Residential

Industrial

Water and Wastewater

Chemicals

Oil & Gas

Power

Others

Global Centrifugal Pump Market, By Region:

Asia-Pacific

China

Japan

India

Australia

South Korea

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Netherlands

Middle East & Africa

Israel

Turkey

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global centrifugal pump market.

Available Customizations:

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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