

Asia-Pacific Volute Pumps Market By Type (Metallic Pumps, Concrete Pumps), By Application (Irrigation Schemes, Cooling Water, Drainage & Flood Control, Others), By End Use (Agriculture & Lift Irrigation, Building Services, Power, Water & Wastewater, Oil & Gas, Chemicals, Others), By Country, Competition, Forecast and Opportunities, 2028

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Abstracts

Asia-Pacific volute pumps market is anticipated to grow at a steady pace during the forecast period. A volute pump is a spiral pump casing often used in centrifugal pumps. The purpose of the volute is to convert the velocity of the liquid into pressure as the impeller ejects it from the case nozzle. This is achieved by gradually increasing the vortex cross-sectional area, fluid flow area, and fluid static pressure.

As the centrifugal pump impeller rotates, it increases the velocity of the liquid in the pump casing. Because this impeller is eccentric to the volute, the flow area within the pump casing is different and gradually increases. Fluid flow due to impeller action begins at the part of the scroll closest to the impeller with the smallest cross-sectional area. As the fluid moves around the casing to the exit area, it builds up pressure as it fills the enlarged area of the vortex. Therefore, the fluid gains maximum pressure at the exit region where the swirl area is the largest.

From a techno-economic point of view, volute pumps are the best pump option for handling large volumes of water. Volute pumps ensure strength and rigidity and virtually eliminate corrosion and erosion problems. Volute pump housing and suction pipes are made of in situ concrete with rotating metal parts. A volute pump consists of three main sections: a concrete volute and draft tube, a cast embedded component, and a rotating

assembly. These pumps are useful for applications that need to handle high flow rates and are ideal for seawater applications. Advantages of centrifugal pumps include high reliability, simple construction, excellent operating performance, vibration-free equipment, and low maintenance costs.

Oil & Gas Industry is Expected to Propel the Asia-Pacific Volute Pumps Market

Asia poses the greatest threat to global net-zero targets due to a single factor: the dominance of fossil fuel energy. The Asian oil and gas industry is a key factor in addressing CO2 emissions. Over the last 40 years, Asia has experienced a significant increase in oil and gas consumption. It accounts for a large part of the overall energy mix and energy supply. Nevertheless, oil and gas are still small in the Asian power mix compared to the rest of the world. The region offsets this with coal, which accounts for more than half of its power generation. Asia lags behind the rest of the world in phasing out fossil fuels. However, this does not diminish the importance of continents in the energy transition. On the contrary, according to the International Energy Agency (IEA), the projected increase in energy demand in Asia over the next 20 years will be a major driver and proxy for global energy trends. In 2018, according to International Association of Oil & Gas Producers, China was by far the largest oil producer in the Asia-Pacific region. Their production was 3.8 million barrels per day, making China accountable for 49% of the region's total production. The other largest producers were Indonesia with 12% share, India with 11% share, and Malaysia with 9% share. Asia-Pacific consumes 35% of the world's oil and processes 34.6 million barrels per day. This consumption has increased by a third over the past ten years. China was the largest consumer in the region. Demand in excess of 13 million barrels per day accounts for 38% of total Asia-Pacific demand. India was the second-largest consumer in the region, with rising wealth and industrialization accounting for 14% of total oil demand in the Asia-Pacific region. Japan was the third largest consumer in the region, accounting for 12%, while South Korea accounted for 8% of the region's total oil consumption. With the exception of Japan, demand across Asia Pacific was at or above record levels in 2017. This demand is expected to drive the growth of the Asia-Pacific volute pumps market during the forecast period.

Market Segmentation

The Asia-Pacific volute pumps market is divided into type, application, end use, and country. Based on type, the market is bifurcated into metallic pumps and concrete pumps. Based on application, the market is bifurcated into irrigation schemes, cooling water, drainage & flood control and others. Based on end-use, the market is further

bifurcated into agriculture & lift irrigation, building services, power, water & wastewater, oil & gas, chemicals and others. Based on country, the market is segmented into China, Japan, India, South Korea, Australia, Vietnam, Indonesia, Singapore, Philippines, Malaysia.

Market Players

Major market players in the Asia-Pacific volute pumps market are Shanghai Kai Quan Pump (Group) Co. Ltd, Watson-Marlow Inc., GRUNDFOS Holding A/S, Gardner Denver, Kirloskar Brothers Limited, Flowserve Corporation, Honda Kiko Co Ltd, Andritz AG, WPIL Limited, and Sulzer Ltd.

Report Scope:

In this report, the Asia-Pacific volute pumps market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Asia-Pacific Volute Pumps Market, By Type:

Metallic Pumps

Concrete Pumps

Asia-Pacific Volute Pumps Market, By Application:

Irrigation Schemes

Cooling Water

Drainage & Flood Control

Others

Asia-Pacific Volute Pumps Market, By End-Use:

Agriculture & Lift Irrigation

Building Services

Power

Water & Wastewater

Oil & Gas

Chemicals

Others

Asia-Pacific Volute Pumps Market, By Country:

China

Japan

India

South Korea

Australia

Vietnam

Indonesia

Singapore

Philippines

Malaysia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia-Pacific volute pumps market.

Available Customizations:

Asia-Pacific Volute Pumps Market By Type (Metallic Pumps, Concrete Pumps), By Application (Irrigation Schemes,...

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).

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