

Screw Pumps Market – Global Industry Size, Share, Trends, Opportunities, and Forecast, 2028 Segmented By Type (Double-suction Twin-Screw Pump, Single-suction Twin-Screw Pump), By Application (Oil and Gas, Refineries, Food & Beverage, Storage, and Transportation, Other), By Region and Competition

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Abstracts

Global Screw Pumps market is anticipated to grow at a steady pace during the forecast period. The demand for pure and clean water is growing along with the worrying global increase in water pollution, which in turn is driving up demand for screw pumps to treat water more quickly and effectively. Furthermore, as the global vehicle industry expands, there will likely be greater demand for screw pumps in the manufacturing, refining, manufacturing, and transportation of oil operations in the coming years. Additionally, throughout the forecast period, the growing food and beverage industry is predicted to drive growth in the worldwide screw pump market.

A particular kind of positive displacement pump is the screw pump. This indicates that fluid is moved by continuously shifting the space that the fluid occupies. The screws are protected by a liner that is typically composed of metal. They can be used for many different things, including fuel injection, oil burners, boosting, hydraulics, lubricating, circulation, feeding, and pumping high-pressure viscous fluids in offshore and maritime facilities. It generates a flow rate that is volumetrically constant and unaffected by factors like viscosity or pumping pressure that could slow down a centrifugal pump. Several benefits of screw pumps include flexibility with various pressures, kinds, and viscosities of liquids and a constant pace of flow.

There are three main types; In its most basic form (the Archimedes' screw pump or

'water screw'), a single screw rotates in a cylindrical cavity, causing some material to be gravitationally trapped on top of a section of the screw as if it were a scoop. The material is then gradually moved along the screw's axle until it is discharged at the top. Numerous low-tech uses, including irrigation systems and agricultural gear for the transportation of grain and other solids, nevertheless make use of this antiquated structure. The second version operates differently; it presses a material pocket that has become trapped against a screw. In current times, the name 'screw pump' is most often used to describe this type. The third type, also known as the progressive cavity pump or eccentric screw pump, works by eccentrically spinning the screw to squeeze a trapped pocket of material against the hollow walls.

Rising Need for Handling Liquids and Slurries

The global market for screw pumps is anticipated to be driven by the rising need for handling liquids and slurries. The global screw pump market is probably going to grow as a result of rising industrialization and rising prices for wastewater and water treatment. Due to the screw pump's adaptability to handle downstream, middle, and upstream operations, the oil and gas industry is more in demand for it. Screw pumps play a significant role in the food and beverage industry. Due to innovative technology and a wide range of options, screw pumps are a vital component of many industries, which is projected to drive market demand in the future. Due to the growth of these businesses on a global scale, screw pumps are quite popular.

Due to advancements in screw pumps, industries are moving toward, for instance, screw pumps are high resiliency strong tolerance to dust/particles/water vapor according to customer requirements, extremely fast pumping rates, no medium contamination occurs during frictionless spinning, and internal compression effectively reduces rotor wear, high energy efficiency is achieved using frequency converter operation, which has comparatively low operational costs and maintenance requirements.

Increase in Oil and Gas Production

An increase in oil and gas production, which has prompted the construction of new infrastructure like refineries and storage tanks, is one of the main factors driving the expansion of this industry. The market for two-screw pumps is anticipated to increase as a result of the rising average daily volume (ADV) of crude oil and natural gas, as well as the rising demand for machinery with larger pumping capacities in a variety of settings, including refineries and storage tanks. However, the Marathon complex in

Garyville, Louisiana, is the newest refinery with a sizable downstream unit capacity. The plant had a 200,000 b/cd atmospheric distillation unit capacity when it first went online in 1977, and as of January 1, 2022, it has a 585,000 b/cd capacity. Due to this, the market is expected to grow with a high CAGR in the forecast period. Additionally, In India's BARMER, Feb. 21 (Reuters) - According to the energy minister on Tuesday, India's Hindustan Petroleum Corp (HPCL) intends to begin construction on its 9 million tons per year Barmer refinery and petrochemical project in Rajasthan state by January 2024, which will assist reduce petrochemical imports.

Rising Need for Screw Pumps in Wastewater Treatment Process

Advanced dry screw vacuum pumps, multiple screw pumps, and spindle screw pumps are increasingly in use in the water and wastewater industries due to hydraulic fracturing. Eccentric screw pumps and twin-screw pumps are used in many sectors that frequently work with different fluids. During the anticipated period, Asia Pacific is expected to dominate the market for screw pumps, followed by Europe. There are several suppliers and exporters of screw pumps in nations, such as China and India, where there are also strong distribution networks. China had the largest trade value when screw pump imports and exports were examined in 2020.

These are widely used in refineries all over the world due to their ability to operate automatically. They are highly useful in moving solids between tanks or vessels without having to change any valve-related setups, which means that no time is going to be lost during the transfer procedure. Included in this are residuals that can harm machinery and must be safely transported over short distances before being converted into fuel oils at other facilities that do not demand such high quality.

Market Segmentation

The global Screw Pumps market is segmented by type, application, and region. Based on the type, the market is divided into double-suction twin-screw pumps and single-suction twin-screw pumps. Based on application, the market is divided into oil and gas, refineries, food & beverage, storage and transportation, and others. Based on region, the market is segmented into North America, Asia-Pacific, Europe, South America, and the Middle East & Africa.

Market Players

Major market players in the global screw pumps market are Colfax Corporation,

Flowserve Corporation, Gardner Denver, Inc, SPX Corporation, NETZSCH Pumps & Systems, ITT INC, Leistriz Pumpen GmbH, PSG Dover, Iwaki Co Ltd, and Alfa Laval Corporate AB.

Report Scope:

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

Screw Pumps Market, By Type:

Double-suction Twin-Screw Pump

Single-suction Twin-Screw Pump

Screw Pumps Market, By Positive Displacement:

Oil and Gas

Refineries

Food & Beverage

Storage and Transportation

Other

Screw Pumps Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East

Saudi Arabia

South Africa

UAE

Israel

Competitive Landscape

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

Available Customizations:

Global Screw Pumps 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).

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