

Europe Positive Displacement Pumps - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Europe Positive Displacement Pumps Market is expected to register a CAGR of 4.1% during the forecast period.

Key Highlights

- Positive displacement pumps push fluids forward by trapping and moving them along a casing instead of throwing them as in centrifugal pumps. Therefore, positive displacement pumps does not increase the fluid's pressure unless there is a resistance in the fluid's way downstream of the pump.
- Unlike centrifugal pumps, which can generate only a limited head rise, in positive displacement pumps, the pressure increase depends on the pump's downstream condition. As a result, these pumps can generate large pressure differences and are suitable for high-pressure applications.
- Positive Displacement Pumps are employed in the upstream phase of an oil refinery. They are compact units, which increases the high-pressure ratio, making them among the most efficient types of pumps and a low-cost solution. They are suitable for thick fluids transported at a lower stream rate, but higher pressure and are frequently used in the upstream phase of an oil refinery.
- Due to an upsurge in demand, the oil and gas industry in the region is facing increasing demands for operational flexibility, increased performance, and better efficiency. Screw pumps are now playing a larger role in areas traditionally dominated by centrifugal and reciprocating pumps. Also, several technological advancements like the mixture of hydraulic fracturing and horizontal drilling are boosting the levels of oil production, thus attracting lucrative opportunities for the growth of the studied market.
- However, despite their affordability and efficiency, these pumps require extensive maintenance, partly due to mechanical part failures. They're also noisier than a centrifugal compressor, which could raise issues in certain applications.

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The Water & Wastewater Segment is Expected to Hold a Major Market Share

- Industrial positive displacement pumps are at the heart of wastewater treatment systems, and various pumps are used in the treatment process. The pumps transfer liquids from tank to tank because they are durable enough to handle a wide range of fluids and solid particles. The pump makes water move by trapping a fixed amount and forcing (displacing) that trapped volume into the discharge piping. Some pumps use an expanding cavity on the suction side and a decreasing cavity on the discharge side. Water flows into the pump as the cavity on the suction side expands, and the water flows out to the discharge as the cavity collapses.
- The European region is witnessing increasing investments in water and wastewater treatment solutions. For instance, in March 2022, the international engineering and consulting company DMT GmbH und Co. KG (Essen, Nordrhein-Westfalen, Germany) announced that it had signed a strategic cooperation with Mutag (Chemnitz, Germany), a specialist in the field of biological wastewater treatment. The collaboration aims to implement turnkey wastewater treatment projects for the industrial sector globally. The companies intend to create efficient processes, save costs, and pool resources to position themselves sustainably in the market for big orders, particularly from companies in the steel industry, the chemical and petrochemical industries, and paper and food industries.
- In December 2021, the European Bank for Reconstruction and Development (EBRD), the European Investment Bank, and the European Union (EU) announced that they are financing a new wastewater treatment plant in northern Kosovo to improve sanitation standards and reduce wastewater pollution in South Mitrovica, Vushtrri, and the surrounding areas. The EBRD is extending a loan of EUR 13.5 million to Regional Water Company Mitrovica, a state-owned water utility company, to finance the construction of the new treatment plant and the rehabilitation and extension of the wastewater network in South Mitrovica and Vushtrri. The plant will benefit more than 123,000 people living in the company's service area.
- In July 2021, the Lenzing Group, a significant provider of wood-based specialty fibers for the textile and nonwoven industries, is investing GBP 20 million to build a new, advanced wastewater treatment plant at its site in Grimsby, UK. The investment is part of the company's objectives to reduce wastewater emissions by 2022. Such an upsurge in regional investments is expected to drive the growth of the studied market.
- In June 2021, scientists from Newcastle University and partners from Northumbrian Water opened a new facility that would play a key role in improving how sewage is treated in Europe. Based at Northumbrian Water's sewage treatment plant at Birtley, near Gateshead, the Biological Engineering: Wastewater Innovation at Scale (BEWISe) facility would host other researchers from around the world to help speed up the translation and uptake of innovations by the water sector. It would do this by speeding up the transition from existing energy-intensive treatment processes to low carbon alternatives with lower running costs. Such initiatives are likely to offer robust opportunities to expand the studied market.

The Food & Beverage Sector is Expected to Witness Significant Growth

- Positive Displacement pumps offer numerous benefits in food production, including smooth, pulse-free pumping and hygienic performance. The use of large rotor fluid cavities and anti-cavitation ports make them suitable for a wide range of applications, including highly viscous fluids and fluids containing large particles. Some pump models are designed with particularly tight internal tolerances, facilitated through special non-galling internal alloys. These offer low slip performance, increasing pumping efficiency and improving sanitary performance and unit longevity.
- A substantial share of the European economy comprises the food and beverage industry, as nations such as Italy, Germany, and the U.K. play a crucial role in the region's economic development.
- The region is witnessing an upsurge in the production and processing of meat and meat-based products. For instance, according to FranceAgriMer, the volume of pork produced in France increased from 2,240 thousand tons in 2018 to 2,256 tons in 2021.

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Further, France's chicken meat production volume increased from 1,176.4 thousand tons in 2019 to 1,178.9 thousand tons in 2021.

- Further, Germany's booming food market is attracting international investors in production, corporate catering, and the gastronomy sectors. For instance, in August 2021, Swiss technology group Buhler AG and the food technology research institute DIL Deutsches Institut für Lebensmitteltechnik e. V. (German Institute of Food Technologies) unveiled the Technology Center Proteins of the Future in Quakenbruck, Germany. The new facility would provide advanced research, testing, and production infrastructure to develop healthy, sustainable protein food products. Such developments would augment the demand for the studied market in the region.

- Additionally, to cater to the soaring demand for innovative pumps and tailor-made solutions for consumers' evolving and complex needs, several market players are introducing new and advanced products in the region. For instance, in April 2022, NETZSCH Pumpen & Systeme GmbH announced that it would be presenting its latest innovations at Anuga FoodTec in Cologne. Its new PERIPRO peristaltic pump, the NOTOS screw pump, the TORNADO rotary lobe pump, and the proven NEMO progressing cavity pump would be a part of its display.

Europe Positive Displacement Pumps Industry Overview

The Europe Positive Displacement Pumps Market is a significantly competitive market with the presence of significant players like Flowserve Corporation, Sulzer Ltd, Xylem Inc., etc. To continue a long-term relationship with their existing customers and expand their customer base, European Positive Displacement pump manufacturers are introducing innovative design features, and environmentally friendly pumps, and providing prompt after-sales services, including on-site consultation for their products.

- July 2021 - Ingersoll Rand Inc. entered into an agreement to buy the German positive displacement pump manufacturer Seepex GmbH in a EUR 431.5 million cash deal. Bottrop-headquartered Seepex specializes in progressive cavity pumps for water and wastewater, food, beverage, and chemical applications. The company has added facilities in North America and the Asia Pacific, employs around 800 people, and has annual revenue of approximately EUR160 million. Post the deal; the Seepex business will join the Ingersoll Rand Precision and Science Technologies (PST) segment.

- June 2021 - PSG, an operating company of Dover Corporation, announced that it had completed the acquisition of Quantex Arc Ltd., a prominent player in single-use positive displacement pumping technology. The Quantex recyclable portfolio of products would enable PSG to expand our single-use application reach across the biopharma, hygienic, food and beverage, and industrial markets.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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