

ATEX Pumps Market: Current Analysis and Forecast (2024-2032)

<https://marketpublishers.com/r/AF390128FDA9EN.html>

Date: February 2025

Pages: 135

Price: US\$ 3,999.00 (Single User License)

ID: AF390128FDA9EN

Abstracts

ATEX pumps are pumps specifically designed and certified for safety in potentially explosive atmospheres under the ATEX (Atmosph?res Explosibles) requirements. Other stringent safety requirements are imposed to avoid ignition sources in hazardous environments arising in oil and gas, chemical, pharmaceutical, and mining industries. ATEX pumps will handle flammable gases, vapors, dust, and other hazardous materials without putting safety at risk.

There are two major classes of ATEX-certified pumps: one for work in Zone 1 (where explosive mixtures are likely to occur during normal operation) and the other for Zone 2 (where explosive mixtures are not likely to occur). Special features of the pumps include explosion-proof motors, anti-static parts, and hermetically sealed systems designed for safe operation.

Due to heightened concerns for industrial safety and increasing demands for stricter regulation, ATEX pumps have become indispensable in industries requiring high safety standards concerning handling risks associated with explosive environment.

The ATEX Pumps Market is expected to grow at a significant rate of around 6.14% during the forecast period (2024-2032). The worldwide ATEX market deals with equipment and systems intended for use in explosive environments in sectors like oil and gas, chemicals, pharmaceuticals, and mining. ATEX, short for Atmospheres' Explosible, refers to equipment and protective systems intended for use in explosive atmospheres, which are the standards of the European Union. These regulations essentially certify that the products are safe for applications in areas hazardous to explosive gases, vapors, or dust. Industrialization and demand for safety in hazardous working environments are the main driving forces for the ATEX market. The growing

demand for ATEX-certified products, including ATEX pumps, lights, motors, and sensors, follows tighter standards of safety being enforced in industries.

The evolution of the ATEX pumps market hence gives more importance not only to industries worldwide but also to energy security and environmental sustainability. Through safer and more effective pumping solutions where there is a risk of explosion, ATEX pumps are working toward energy diversification and the move for cleaner energy. They help diminish the use of conventional fossil fuels such as oil and coal by assisting in the extraction and transportation of cleaner sources such as natural gas. In addition to that, the very existence and growth of ATEX pumps uphold the contest of international climate goals by ensuring energy clean extraction processes for more sustainable use. New innovations in ATEX pumps further shed light on their contribution to solving the sustainability problem: an improvement of fracturing techniques that minimize water risk and environmental footprint. This evolution is also disrupting the global natural gas markets, in turn creating cheaper energy alternatives to fossil fuels and cleaner energy option.

Considering all the changes market is further anticipated to rise further promoting the demand for the ATEX Pumps during 2024-2032.

The segmentation of the global ATEX pumps market by Type of Pump includes centrifugal pumps, positive displacement pumps, diaphragm pumps, and gear pumps, with centrifugal pumps being the largest in market share. Some of the major factors that have contributed to the high share of centrifugal pumps are versatility, efficiency, and the use of centrifugal pumps in various industries across the board. These pumps are very well suited for the movement of large volumes of liquids and are used in applications like oil and gas, chemical processing, and water treatment. Their high flow rates and suitability for transferring different fluids, more significantly, hazardous fluids, perfectly fit the ATEX-certified systems. Furthermore, relatively low-priced and low-maintenance, centrifugal pumps are also very efficient in explosive atmospheres; therefore, because these factors and many others, they are ruling over a large share of the market.

Based on Material of Construction the global ATEX pumps market has been segmented into Stainless steel, cast iron, plastic, and alloy-based material. Of these, stainless steel has held a sizable amount of market share of all. Being anti-corrosive, durable, and resistant to harsh operating conditions that prevail in hazardous environment, stainless steel has taken a firm stand in the ATEX

pumps market. In the chemicals, pharmaceuticals, and food-processing industries, such environments often expose stainless steel to aggressive chemicals and extreme working temperatures. High strength again ensures that components stay within performance limits for long service life, thus minimizing maintenance costs. Versatility and meeting all ATEX norms are paramount attributes that cultivate choice for manufacturers and users equally. Due to many advantages of stainless steel, their demand will further increase for ATEX pumps.

For a better understanding of the market adoption of the ATEX Pumps market, the market is analyzed based on its worldwide presence in countries such as North America (U.S., Canada, and the Rest of North America), Europe (Germany, France, U.K., Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, Rest of Asia-Pacific), Rest of World. Europe holds a significant share of the ATEX Pumps market and is anticipated to maintain a steady growth rate over the forecast period. Europe with higher demand for fossil fuel and reduction in carbon emission has resulted in higher market share of the ATEX Pumps market.

Some of the major players operating in the market include Grundfos, Xylem, Sulzer, Flowserve, KSB, Wilo, Ebara, AXFlow, Kirloskar Brother Limited, Cat Pumps.

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