

Dosing System Market - Growth, Trends, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 125 pages | Mordor Intelligence

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Report description:

The dosing system market is expected to register a CAGR of more than 1.25% in the forecast period.

The market was negatively impacted by COVID-19 in 2020. Presently, the market has reached pre-pandemic levels.

Key Highlights

The growing sectors, like chemical industries and sewage treatment, are expected to drive the market forward significantly in the forecast period. Increasing investments in water treatment by developing countries are also creating a favorable demand for these pumps.

On the other hand, the availability of cheap and alternative pumps is a significant factor that restrains the growth of the market in the upcoming period.

With projects, like Namami Gange and Clean Yamuna Project, in December 2017, India announced the construction of 90 sewage treatment plants to treat the river Ganga alone. The projects are expected to be operational in the future, thus creating significant opportunities for the dosing pump market.

With anticipated growth in industries in the chemical sector and water treatment plants in countries like India and China, the Asia-Pacific region is expected to dominate the market in the forecast period.

Dosing System Market Trends

Water and Sewage Treatment Sector to Dominate the Market

A dosing pump is a positive displacement pump that assists in transporting exact flow rates of different fluids and chemicals into another fluid stream.

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Dosing systems are used in water and sewage treatment for multiple purposes. Operations like pH maintenance of boiler water, protection against corrosion, and precipitation are performed using dosing pumps.

Germany, which has the largest capacity of wastewater in Europe, with more than 3,500 treatment plants by 2021, has an extensive usage of dosage pumps. This, in turn, culminates in the growth of the market.

Several companies in the United Kingdom treat a billion liters of wastewater on a daily basis. A dosing pump plays a crucial role in injecting a product such as chlorine into a water or fluid stream to cause a chemical reaction. For instance, Thames Water treated 4.6 billion liters of wastewater every day for the year ended March 2022. It also provides 2.5 billion liters of drinking water every day to more than 15 million customers in London and the Thames Valley region.

In June 2022, water treatment solutions provider Daiki Axis Japan announced the setting up of its second plant in India at Haryana with an investment of INR 200 crore. The plant, with a capacity to produce 1,000 sewage treatment units with Japanese "Johkasou" technology, is coming up in Palwal, Haryana, India.

Owing to the above-mentioned points, the water and sewage treatment sector is expected to dominate the dosing system market during the forecast period.

Asia-Pacific to Dominate the Market

Asia-Pacific is expected to dominate the market for dosing systems, with growth expected in chemical, water treatment, and petrochemicals in the forecast period.

China and India are the leading markets in the oil refining sectors, with a collective capacity of more than 20,000 thousand barrels per day, holding significant application in dosing pumps.

Also, wastewater technology is primarily used in municipal wastewater treatment by the municipal authority of various cities across India. As per the World Bank, India, along with China, Indonesia, Nigeria, and the United States, will lead the world's urban population surge by 2050.

To fulfill the scarcity of water, the Council on Energy, Environment, and Water (CEEW), in association with the 2030 Water Resources Group, has been planning to improve wastewater management in India, along with increasing private investments to build wastewater treatment plants.

The Delhi government is building India's largest sewage treatment plant (STP) in the Okhla subdivision of Delhi, capable of treating 564 million liters of wastewater per day. It was expected to be completed by the end of 2022.

In July 2022, Delhi Jal Board (DJB) developed a technology to treat water in its sewage treatment plants. This technology, called ISASMA-CD (Intelligence Self-Administered Self Monitored Automatic Chemical Dosing), has been introduced at four DJB plants at Yamuna Vihar and Okhla with the objective of reducing BOD (Biological Oxygen Demand) and TSS (Total Suspended Solids) to less than 10 PPM (parts per million).

In Beijing, the government is aiming to invest in wastewater treatment and sewer networks to achieve 100% domestic and industrial wastewater treatment. This is going to increase the demand for dosing systems significantly in the forecast period.

With the rapid growth in the sewage and water treatment, refining, and food processing industries, Asia-Pacific is expected to dominate the market for dosing systems in the forecast period.

Dosing System Market Competitor Analysis

The dosing system market is fragmented. Some of the major companies in the market (in no particular order) include Dover Corp., ProMinent GmbH, Grundfos Holding AS, Nikkiso Co. Ltd, and Iwaki & Co. Ltd.

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