

Magnetic Drive Pumps Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018–2028F Segmented By Type (Rotating Shaft Magnetic Drive Pumps, Stationary Shaft Magnetic Drive Pumps), By Flow Rate (81–200 m³/hr, Up to 80 m³/hr, 201–500 m³/hr, >500 m³/hr), By Material (Stainless Steel, Polypropylene, Others), By Application (Chemical Processing, Water Treatment, Others), By Region & Competition

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Abstracts

Global magnetic drive pumps market is expected to grow during the forecast period due to the rising chemical & water industry.

A magnetic drive pump is a magnetic drive chemical process pump design that does not require a shaft seal. This significantly reduces initial pump costs and daily running costs because there is no need to install mechanical seals, seal fluid reservoirs, or cooling lines. Motor drives and pump drives are connected via a magnetic connection that works through an insulating jacket. This means there are no direct or indirect escape paths for liquids or gases that can pose a hazard to the operator or the environment.

Magnetic drive pumps are available in a variety of materials of construction, including cast iron/ductile iron, 316 stainless steel, and Hastelloy. Due to its versatile application options, this type of pump contributes to technical standardization in process engineering. Magnetic drive pumps are available in direct coupling and long coupling (frame mounted) configurations.

Volatile organic compounds (VOCs) and volatile hazardous air pollutants (VHAPs) are major concerns for facilities that use pumps to transfer chemicals. These transient emissions wreak havoc on operations if the pump does not effectively prevent leaks. Pump owners will be held accountable and run the risk of failing compliance tests as a result of these emissions, which will also be harmful to employees and the general public.. Magnetic drive pumps prevent leaks and help businesses comply with local, state, federal health, and safety standards. This improves overall plant safety and reduces the potential for non-compliance fines and shutdown orders.

Growing Adoption of Leakproof Systems

Eliminating leaks greatly improves pump reliability and performance, preventing unplanned repairs and downtime. This is one of the main factors leading to the increasing demand for magnetic drive pumps. Its ability to prevent leaks and prevent harmful liquids from entering the final product should offer strong growth prospects for the global magnetic drive pumps market. Fluid leaks not only increase overall maintenance costs, but also have a negative impact on the environment. Due to oil and chemical leakage from various hydraulic pumps due to seal damage, it is expected that other pumps will be replaced with electromagnetic couplings. Environmental concerns have prompted pump manufacturers to adopt cleaner technologies. The lack of seals and pumped fluid being completely confined within the confines of the pump housing increases the demand for magnetically driven pumps.

Dry running is one of the most common causes of pump failure. Operator error or system failure may allow the pump to run continuously without liquid. Running many pumps dry can quickly damage or destroy them. This is not the case with some designs of magnetic drive pumps. Many Finnish Thompson magnetic drive pumps can easily run dry for hours. In production applications where pumps are not constantly monitored, this dry-running feature can eliminate the risk of pump failure and associated costs.

The environmental and safety impact of fluid handling solutions is one of the key considerations when purchasing, using, and maintaining a new pump. Magnetically driven pumps are still firmly used for corrosive chemical applications. These pumps have improved corrosion resistance and dry running capability under the most severe conditions. Environment-friendly technology has created a huge demand for magnetically driven pumps in the production of biodiesel fuel where the mixture of solvents and corrosive causes sealing problems. Magnetic drive pumps help prevent volatile hazardous air pollutants (VHAPs) and volatile organic compounds (VOCs) from leaking. Therefore, magnetic drive pumps can help businesses comply with new state,

local, and federal health and safety standards and regulations and avoid costly fines. Emissions regulations and standards continue to be the trending factor behind the growing popularity of the global magnetic drive pumps market.

Technological Advancements in the Form of Sealless Pumps

Despite being in use for many years, sealless magnetic drive pumps are still a specialized solution for handling dangerous pumping applications. Compared to conventional sealed pump designs, sealless magnetic drive pumps have fewer leak routes and more reliable components. The electric motor that powers magnetic drive pumps is a typical electric motor. It can have a flexible coupling that supports the outer magnet assembly rather than the impeller and uses a bearing housing arrangement similar to those found in sealed pumps, or it can have a close-coupled design in which the outer magnet assembly is mounted directly to the motor shaft. The primary containment device serves as a containment shell that separates the exterior magnet assembly from the inner magnetic drive. In addition to the highest operating safety, minimal maintenance requirements, and adherence to stringent environmental standards, they provide plant engineering contractors and operators with a 100% leak-free pump. Since they have proven to be a more cost-effective solution for difficult-to-seal applications and the handling of hazardous, volatile, and aggressive chemicals, magnetic drive pumps are actually replacing centrifugal pumps with double mechanical seals.

Latest Projects and Investments

In 2020, Amarith received a USD1 million order from NAMA for 14 API 610 VS4 pumps with a Plan 53B seal support system for ADNOC Ruwais East Refinery in the United Arab Emirates. These pumps are installed at the Lewis East Refinery and used for closed drain operations, oil condensate transfer, and portable barrier fluid system blowdown drums. Depending on the specific task, these pumps are manufactured from stainless steel or carbon steel and are all ATEX Zone 2 compliant. These pumps also have custom-made baseplate to accommodate non-standard layouts of the Plan 53B seal retention system. The ADNOC Ruwais Refinery, located in Al Ruwais, 240 km west of Abu Dhabi city, is one of the world's largest petrochemical refineries with a production capacity of over 800,000 barrels per day.

In 2020, the API 685 magnetically driven horizontal pump was introduced to Sensia and was provided to offshore oil rigs in the Norwegian North Sea by Amarith, a company that specializes in the design, application, and

manufacturing of centrifugal pumps and related equipment for the oil & gas, petrochemical, LNG, chemical, industrial, power, and desalination markets. The Sensia monitor takes samples from the main process line as pump performance and process liquid sealing are critical. Amarinth began lateral thinking about how to keep the same fundamental centrifugal pump design while reducing the system's overall area. After evaluating several options, Amarinth suggested using his one of API 685 magnetic drive pumps instead of the original API 610 pump and Plan 53B seal retention system. The Amarinth API 685 magnetically driven pump is capable of providing exactly the same performance as the original API 610 pump, which was critical to the proper functioning of Sensia equipment, but in a much more compact design to fit facility space restrictions. The API 685 magnetic drive pump was manufactured to Norsok M650 specifications from super duplex stainless steel and Amarinth built and delivered the pump within 28 weeks, including witness testing. The Edvard Grieg oil field is located approximately 150 km off the southwestern coast of Norway in 110 meters of water. Sensia provided a sampling and monitoring rig for the field rig, but it proved difficult to fit a standard API 610 horizontal pump with a Plan 53B seal support system in the very limited platform space.

Market Segmentation

The global magnetic drive pumps market is segmented on the basis of type, flow rate, material, application, and region. Based on type, the market is bifurcated into rotating shaft magnetic drive pumps and stationary shaft magnetic drive pumps. Based on flow rate, the market is further bifurcated into 81–200 m³/hr, Up to 80 m³/hr, 201–500 m³/hr, and >500 m³/hr. Based on material, the market is bifurcated into stainless steel, polypropylene, and others. Based on application, the market is bifurcated into chemical processing, water treatment, and others. Based on region, the market is further bifurcated into North America, Asia-Pacific, Europe, South America, and Middle East & Africa.

Market Players

Major market players in the global magnetic drive pumps market are Iwaki Co., Ltd, Sundyne LLC, Richter Chemie-Technik GmbH, ITT Goulds Pumps Inc, Flowserve Corporation, Ebara Corporation, Ruhrpumpen Group, Xylem Inc, March Manufacturing Inc, and Kirloskar Brothers Limited.

Report Scope:

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

Magnetic Drive Pumps Market, By Type:

Rotating Shaft Magnetic Drive Pumps

Stationary Shaft Magnetic Drive Pumps

Magnetic Drive Pumps Market, By Flow Rate:

81–200 m³/hr

Up to 80 m³/hr

201–500 m³/hr

>500 m³/hr

Magnetic Drive Pumps Market, By Material:

Stainless Steel

Polypropylene

Others Magnetic Drive Pumps Market, By Application:

Chemical Processing

Water Treatment

Others

Magnetic Drive Pumps Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Europe

Germany

United Kingdom

France

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East

Saudi Arabia

South Africa

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global magnetic drive pumps market.

Available Customizations:

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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(Note: The companies list can be customized based on the client requirements.)

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