

Global Gear Pumps Market Size Study, by End-user (Heavy Industry Sector, Agriculture and Forestry, Automotive, Others) and Regional Forecasts 2022-2032

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Abstracts

Global Gear Pumps Market is valued at approximately USD 2.11 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 4.5% over the forecast period 2024-2032. A gear pump, a type of positive displacement pump, operates using interlocking gears to move fluid. It functions by creating a vacuum within the pump casing as the gears rotate, drawing in fluid, which is then carried around the gears and discharged from the pump. Known for their reliability, high efficiency, and capability to handle high pressures and viscosities, gear pumps find extensive application in various industries such as automotive, hydraulics, and chemical processing.

The market is witnessing significant growth due to the extensive application of gear pumps in industries including construction, water treatment, and automotive. These pumps are crucial components in transporting fluids such as oils, fuels, and chemicals. In the construction sector, gear pumps are utilized in equipment for moving concrete and other heavy materials. The demand for energy-efficient solutions is driving the development of quieter, more efficient gear pumps. In the automotive sector, they are employed in fuel systems and power steering, while in the chlor-alkali industry, gear pumps are used in the production of ethylene dichloride. Hydraulic gear pumps, which use intermeshing gears to move fluids, are popular in heavy machinery applications. Other sectors, such as agriculture and wastewater treatment, also utilize gear pumps in their processes. Consequently, the industrial pump industry continues to grow, with the gear pumps market expected to expand alongside it.

The mechanization of agriculture and the growth of the agricultural machinery industry are notably driving market growth. Gear pumps play a significant role in various sectors, particularly in the handling of oils, fuels, chemicals, and viscous fluids. In the automotive

sector, gear pumps are essential for fuel and hydraulic applications, while the chemical processing sector relies on them for transferring and circulating chemicals. With the advent of automation, smart manufacturing practices, Industry 4.0, and energy efficiency, gear pumps have become indispensable in ensuring seamless industrial processes. The infrastructure, mining, and water management sectors also heavily utilize gear pumps due to their ability to handle high pressure and flow rates. Gear pump manufacturers offer customized solutions to cater to the unique requirements of these industries. With an increasing focus on environmental sustainability, gear pumps are being used in water scarcity mitigation projects and to reduce environmental pollution.

The global market for gear pumps is witnessing significant growth due to rising investments in chemical manufacturing facilities in emerging economies. These facilities drive demand for efficient and reliable fluid transportation solutions in sectors such as automotive and chemical processing. With a focus on automation, smart manufacturing practices, Industry 4.0, energy efficiency, and environmental sustainability, the demand for gear pumps is expected to rise in infrastructure projects, mining, and water management. Despite their benefits, gear pumps can generate noise, which is a concern in certain applications. External and internal gear pumps are utilized based on specific application needs.

The contraction in the mining industry in China is a major challenge affecting market growth. Reduced mining activities due to decreased metal and coal imports have led to increased debts and financial instability, hindering market growth. Despite these challenges, gear pump manufacturers continue to focus on providing customized solutions to cater to the unique requirements of various industries.

The key regions considered for the global gear pumps market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is estimated to contribute significantly to the global market growth during the forecast period, driven by the region's advanced technological infrastructure and high adoption rate of digital solutions among manufacturers. The U.S. leads the gear pumps market due to its well-established industrial sector and regulatory environment that encourages the use of advanced technologies. Key drivers include the demand for accurate fluid transportation solutions, improved operational efficiency, and enhanced environmental sustainability. The presence of major market players such as Eaton Corp. and Dover Corp. further bolsters market development through continuous innovation and product enhancements. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by rapid industrialization, infrastructure development, and the burgeoning automotive and chemical sectors. Rising investments in manufacturing and construction, coupled with increasing demand for efficient fluid handling solutions, are propelling market growth. Additionally, the region's focus on

renewable energy and resource recovery is driving demand for gear pumps in various applications.

Major market players included in this report are:

CASAPPA SpA
Daikin Industries Ltd.
Danfoss AS
Dover Corp.
Eaton Corp. Plc
Flowserve Corp.
Hudaco Industries Ltd.
IDEX Corp.
Kawasaki Heavy Industries Ltd.
KSB SE and Co. KGaA
KYB Corp.
Linde Hydraulics GmbH and Co. KG
Avingtrans plc
Bailey International LLC
Bucher Industries AG

The detailed segments and sub-segment of the market are explained below:

By End-user:

- Heavy Industry Sector
- Agriculture and Forestry
- Automotive
- Others

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China

- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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