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Global Vacuum Pumps Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F Segmented By Lubrication (Dry Vacuum Pumps and Wet Vacuum Pumps), By Mechanism (Gas Transfer Vacuum Pumps and Gas Binding Vacuum Pumps), By Pressure (Low Vacuum Pumps, Medium Vacuum Pumps, High Vacuum Pumps, Ultra-High Vacuum Pumps and Extreme-High Vacuum Pumps), By Application (Assembling, Conveying, Dehydration/Drying, Engine Testing, Evaporation & Distillation, Filling, Holding/Chucking, Manufacturing, Material Handling, Thermoforming, and Others), By End-User (Aerospace & Defense, Automotive, Chemical & Petrochemical, Electronics & Semiconductors, Food & Beverage, Healthcare & Pharmaceuticals, and Others), By Region, Competition

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Abstracts

Global Vacuum Pumps market is growing rapidly due to the rising industrial applications in packaging, evaporation, and drying in private sectors such as food & beverage industry, etc. Additionally, the rising demand for vacuum pumps such as dry vacuum pumps in packaging, plastic manufacturing and metal fabrication is expected to fuel

expansion in the vacuum pumps market. Vacuum pumps are becoming the foundational technology model during the COVID19 pandemic as the semiconductor production during the pandemic has grown. Currently, due to less supply and more demand there is a significant shortage of semiconductors and chipsets in the global market. Many enterprises are adopting vacuum pumps as a cost-effective solution to bolster the need for packaging, degassing, drying, distillation, and holding & forming. Vacuum pumps assist various organizations such as pharmaceuticals industries in enhancing performance, better working conditions, lower maintenance cost, saving of valuable time of operation and industries expenditures, lower power consumption, increases production, after sales services, and reliability. Moreover, the growth of the market is due to the rising adoption of smart technology and increasing demand for emerging IoT-based technology. The increasing use of vacuum pump applications in oil and gas, ceramics, metal, mining, and wood working are further expected to boost the global vacuum pumps market in the forecast period.

Rising Industrial Applications in Packaging, Evaporation, and Drying Application

The massive adoption of industrial vacuum pump applications for packaging, degassing, drying, distillation, and holding & forming in the food & beverage packaging industry are growing the demand for vacuum pump market. Vacuum pumps play a critical role in removing the air in the packaging process, limiting the growth of aerobic bacteria or fungi and preventing the evaporation of volatile components during packaging production. Many operations in the food & beverage industries can be optimized using vacuum technology. Applications such as degassing of mineral water to extend the storage time of food and remove odors, brazing, hardening, annealing, case hardening, sintering, tempering and diffusion bonding for metal fabrication, de-aeration process of ceramic materials in the extruders and many more are rapidly being adopted by the enterprises in enormous countries. For instance, modern rotary vane vacuum pumps with an ultimate pressure of 0.1 millibar are used for air-tight seal for soft cheese to extend this period up to three weeks without impacting the quality, Furthermore, the use of Liquid Ring Vacuum Pumps Technology to assist the evaporation of liquid substances in milk processing plants and sugar mills are further fueling the growth of the vacuum pumps industry in the forecasting period.

Growing Demand from Semiconductor Industry

Over the couple of years, the use of vacuum pumps in the production of semiconductor devices has greatly increased their market worth. Demand for semiconductor devices in the automotive and consumer electronics industries, such as smartphones, has

increased and is likely to climb further as technology transitions such as artificial intelligence and wireless technologies progress. Additionally, according to World Semiconductor Trade Statistics (WSTS), global semiconductor sales are predicted to climb higher in the upcoming years. In addition, corporations are working on creating sophisticated semiconductors to meet the demands of end-use sectors such as aerospace & defense, automotive, etc. Furthermore, companies are focusing on developing advanced semiconductors to address the needs of the end use industries like utilization of advanced semiconductors in drone technology. For instance, in 2021, EBARA Precision Machinery Europe (EPME) had announced the operation initiation of its new overhaul center of dry vacuum pumps in a bid to manifest E-Vision 2030, a long-term vision of the company, to contribute towards responding to future smart society development as well as worldwide growing semiconductor demand by expanding semiconductor manufacturing equipment production as well as component service and support. This is likely to drive vacuum pump demand in the semiconductor sector, fueling the vacuum pump market expansion in the forecast period.

Increasing Use of Vacuum Pumps in Oil and Gas Industry

The demand for oil in a variety of applications has been increasing in recent years. According to an Organization of the Petroleum Exporting Countries (OPEC) study, each day demand for oil products will reach 110 million barrels globally, by the end of 2045, with transportation fuels such as diesel and gasoline accounting for the lion's share. This has affected the employment of vacuum pumps in oil recovery, lowering the costs associated with the installation of extra equipment needed to perform the job. Furthermore, due to their superior efficiency and lower initial investment, vacuum pumps are chosen over steam ejectors, which require more energy and incur substantial maintenance expenses associated with pumping and steam generation. In addition, use of other types of vacuum pumps, such as jet and liquid ring variations, are utilized to create vacuum in columns in crude oil distillation. Their combination frequently improves efficiency and reduces cold water and power usage. Given the increased demand for the product in the sector, companies are producing jet vacuum pumps for oil distillation. For example, the GEA group offers jet vacuum pumps that are ideal for oil distillation applications. These vacuum pumps move larger amounts of gas and need less maintenance. In this context, rising demand from the oil and gas industry is likely to drive the global vacuum pump market worldwide.

Market Segmentation

The Vacuum Pumps market is segmented into lubrication, mechanism, pressure,

application, end-user, and region. Based on lubrication, the market is bifurcated into dry vacuum pumps and wet vacuum pumps. Based on mechanism, the market is categorized into gas transfer vacuum pumps and gas binding vacuum pumps. Based on pressure, the market is bifurcated into low vacuum pumps, medium vacuum pumps, high vacuum pumps, ultra-high vacuum pumps and extreme-high vacuum pumps. Based on application, the market is bifurcated into assembling, conveying, dehydration/drying, engine testing, evaporation & distillation, filling, holding/chucking, manufacturing, material handling, thermoforming, and others. The end-user segment is further categorized into aerospace & defense, automotive, chemical & petrochemical, electronics & semiconductors, food & beverage, healthcare & pharmaceuticals, and others.

Market Player

Major market players in the global vacuum pumps market are Atlas Copco AB, Flowserve Corporation, Dr-Ing. K. Busch GmbH, Pfeiffer Vacuum Technology AG, Ingersoll Rand, Becker Pumps Corporation, Ebara Corporation, Global HVAC, LLC, Graham Corporation, and ULVAC, Inc.

Report Scope:

In this report, the Global Vacuum Pumps Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Vacuum Pumps Market, By Lubrication
  - Dry Vacuum Pumps
  - Wet Vacuum Pumps
- Vacuum Pumps Market, By Mechanism
  - Gas Transfer Vacuum Pumps
  - Gas Binding Vacuum Pumps
- Vacuum Pumps Market, By Pressure
  - Low Vacuum Pumps

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Medium Vacuum Pumps

High Vacuum Pumps

Ultra-High Vacuum Pumps

Extreme-High Vacuum Pumps

Vacuum Pumps Market, By Application

Assembling

Conveying

Dehydration/Drying

Engine Testing

Evaporation & Distillation

Filling

Holding/Chucking

Manufacturing

Material Handling

Thermoforming

Others

Vacuum Pumps Market, By End-User

Aerospace & Defense

Automotive

- Chemical & Petrochemical
- Electronics & Semiconductors
- Food & Beverage
- Healthcare & Pharmaceuticals
- Others

Vacuum Pumps Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Asia-Pacific
  - China
  - Japan
  - South Korea
  - India
  - Singapore
  - Thailand
  - Vietnam
  - Indonesia
- Europe

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Germany

France

Italy

Spain

Russia

Austria

Hungary

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East

Saudi Arabia

Iran

Iraq

Turkey

Competitive Landscape

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Company Profiles: Detailed analysis of the major companies present in the Global Vacuum Pumps Market.

Available Customizations:

Global Vacuum Pumps Market report 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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