

# **Turbomolecular Pumps Market Report by Product (Magnetically Levitated, Oil Lubricated, Hybrid), Application (Analytical Instrumentation, Semiconductor, Research and Development (R&D), and Others), and Region 2025-2033**

<https://marketpublishers.com/r/T6927B9159C3EN.html>

Date: May 2025

Pages: 135

Price: US\$ 2,999.00 (Single User License)

ID: T6927B9159C3EN

## **Abstracts**

The global turbomolecular pumps market size reached USD 1.5 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 2.5 Billion by 2033, exhibiting a growth rate (CAGR) of 5.55% during 2025-2033.

Turbomolecular pumps (TMPs) are kinetic vacuum pumps comprising a fast-spinning rotor, turbine, and stationary stator discs with gas conveying channels. They are extremely easy to function, have minimal maintenance requirements, and provide a low vibration, hydrocarbon-free operation that needs no regeneration. As they can be highly compact when combined with a dry primary pump, TMPs find usage in a wide range of applications, ranging from electron microscopy to semiconductor processing. They are also used in ultra-high vacuum applications, such as analytical instruments, and harsh industrial environments wherein the pumps need to handle corrosive gases or critical process conditions.

### **Turbomolecular Pumps Market Trends:**

The escalating demand for semiconductor equipment in the manufacturing of consumer electronics, such as tablets, laptops, and smartphones, represents one of the key factors impelling the market growth. This can also be accredited to the growing adoption of semiconductors in hybrid and electronic vehicles. Apart from this, TMPs create a vacuum environment that is indispensable in the fabrication of solar cells and silicon wafers. This, in confluence with the widespread adoption of silicon wafers in advanced

driver-assistance systems (ADAS), automatic braking systems, adaptive cruise control, and touch-free human-machine interfaces in automobiles, is contributing to the market growth. Moreover, operational proficiency and enhanced productivity offered by TMPs are expanding their applications in research and development (R&D) of nuclear fusion that requires a clean ultra-high vacuum. Furthermore, the rising demand for electron microscopes, focused ion-beam systems, and surface analysis systems is impelling the market growth. Besides this, the development of smart onboard controllers that can monitor and control valves, pumps, and gauges within an automated vacuum system is anticipated to drive the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global turbomolecular pumps market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on product and application.

#### Breakup by Product:

Magnetically Levitated

Oil Lubricated

Hybrid

#### Breakup by Application:

Analytical Instrumentation

Semiconductor

Research and Development (R&D)

Others

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Atlas Copco, Busch LLC, Ebara Corporation, ElettroRava S.r.l., FMG Enterprises Inc., Ingersoll Rand Inc., KYKY Technology Co. Ltd., Osaka Vacuum Ltd., Shimadzu Corporation and ULVAC Inc.

### Key Questions Answered in This Report

- 1.How big is the turbomolecular pumps market?
- 2.What is the future outlook of turbomolecular pumps market ?
- 3.What are the key factors driving the turbomolecular pumps market?
- 4.Which region accounts for the largest turbomolecular pumps market share?
- 5.Which are the leading companies in the global turbomolecular pumps market?

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