

Automotive Dyno Market Report by Product Type (Chassis Dyno, Engine Dyno), Application (Automotive OEM, Automotive Aftermarket), and Region 2024-2032

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Abstracts

The global automotive dyno market size reached US\$ 896.0 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,060.5 Million by 2032, exhibiting a growth rate (CAGR) of 1.8% during 2024-2032. The escalating automobile production and sales, strict government regulations regarding fuel efficiency and vehicular emissions, and increasing applications of automotive dyno across diverse industries represent some of the key factors driving the market.

An automotive dyno, also known as an automotive dynamometer, refers to test equipment designed to measure and record mechanical parameters, such as force, power, torque, and speed, of a vehicle's engine, motor, or other rotating prime movers simultaneously. It is commonly available in two types, namely engine dyno and chassis dyno. While the engine dyno performs engine testing and measures the power and torque directly from the engine, the chassis dyno analyzes the output of the same at the drive wheels. Besides calculating rotational speed (RPM), accelerations of rollers, resistance generated by electromagnetic brakes, fuel consumption, and emissions of a vehicle, this testing device also finds application in measuring air to fuel ratio (AFR) of a mixture, exhaust gas temperature (EGT), and manifold absolute pressure (MAP). As a result, the automotive dyno is extensively utilized throughout the manufacturing cycle, making it an essential tool for all vehicle assembly lines.

Automotive Dyno Market Trends:

Significant expansion in the automotive industry due to the rising automobile production

and sales and the augmenting demand for vehicle restoration and refurbishment represent the primary factors supporting the market growth. Apart from this, rapid urbanization and industrialization in both developed and developing nations have accelerated the adoption of vehicles for daily commutation and transportation of goods and raw materials across different locations. Additionally, with the implementation of stringent fuel efficiency regulations and emission norms by governments of various countries, there is a surge in the need for automobiles to undergo compliance tests to meet industry standards and ratings. In line with this, the increasing applications of dyno across the aviation, aerospace, and marine sectors to ensure maximum efficiency of vessel and aircraft engines have propelled the market growth. Furthermore, several key players are focusing on product innovations, including the development of engine torque pulsation simulation (ETPS) dynamometer, to cater to the evolving requirements of end users. In line with this, the rising adoption of automation processes, such as engine mounting test bed and crank angle position detection, has fueled the market growth. Other factors, including the escalating sales of passenger cars owing to the expanding middle-class population and inflating consumer purchasing power, rising preference for electric vehicles (EVs), increasing demand for luxury and high-performance cars, and continual technological advancements, are also expected to provide a positive impact on market growth in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive dyno market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on product type and application.

Product Type Insights:

Chassis Dyno

Engine Dyno

The report has provided a detailed breakup and analysis of the automotive dyno market based on the product type. This includes chassis dyno and engine dyno. According to the report, chassis dyno represented the largest segment.

Application Insights:

Automotive OEM

Automotive Aftermarket

A detailed breakup and analysis of the automotive dyno market based on the application has also been provided in the report. This includes automotive OEM and automotive aftermarket. According to the report, automotive OEM accounted for the largest market share.

Regional Insights:

Asia Pacific

Europe

North America

Middle East and Africa

Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, Europe, North America, Middle East and Africa, and Latin America. According to the report, Asia Pacific was the largest market for automotive dyno. Some of the factors driving the Asia Pacific automotive dyno market included the presence of a large number of automotive test equipment key suppliers, strict government norms, rising automobile production and sales due to inflating consumer expenditure capacities, low manufacturing costs, and availability of cheap labor, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive dyno market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include AVL List GmbH, HORIBA Group, Meidensha Corporation, Power Test, LLC, SAKOR Technologies, Taylor Dynamometer, Rototest, MTS Systems, NTS Technical Systems, SuperFlow Dynamometers & Flowbenches, Schenck Process Holding GmbH, SGS SA, Sierra Instruments, Inc., Mustang Advanced Engineering, KAHN & Company Inc., Hofmann Tesys, Froude, Inc., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global automotive dyno market in 2023?
2. What is the expected growth rate of the global automotive dyno market during 2024-2032?
3. What are the key factors driving the global automotive dyno market?
4. What has been the impact of COVID-19 on the global automotive dyno market?
5. What is the breakup of the global automotive dyno market based on the product type?
6. What is the breakup of the global automotive dyno market based on the application?
7. What are the key regions in the global automotive dyno market?
8. Who are the key players/companies in the global automotive dyno market?

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