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Automotive Dyno Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global automotive dyno market size reached US$ 877.6 Million in 2022. Looking forward, IMARC Group expects the market to reach US$ 1,005.9 Million by 2028, exhibiting a growth rate (CAGR) of 2.1% during 2023-2028.

An automotive dyno or dynamometer is a type of test equipment used in the automotive industry for measuring and recording mechanical parameters such as force, power, speed and torque of a vehicle. There are primarily two types of dynamometers used in the automotive industry, namely, engine dyno and chassis dyno. The engine dyno performs the engine testing function and measures the power and torque directly from the engine, whereas chassis dyno measures the output of the same at drive wheels. They are also used for measuring rotational speed, accelerations of rollers, resistance generated by electromagnetic brakes, fuel consumption and emissions. Automotive dynamometers also find application in computing Air to Fuel Ratio (AFR) of a mixture, Exhaust Gas Temperature (EGT) and Manifold Absolute Pressure (MAP).

A thriving automotive industry and rapid industrialization are the key factors driving the market growth. This, coupled with the growing demand for automobile restoration and refurbishment, is contributing significantly to the sales of automotive dyno. Furthermore, industrialization in both the developed and emerging economies has elevated the demand for automobiles for daily commutation and transportation of goods and materials across various locations. Another factor positively influencing the market is the increased applicability of dynamometers in sectors such as aviation, aerospace and marine that require the equipment to ensure maximum efficiency of vessel engines. Furthermore, increasing technological innovations such as the development of engine torque pulsation simulation (ETPS) dynamometer and availability of automation

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procedures such as engine mounting test bed and crank angle position detection are also expected to catalyze the market growth.

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 2023-2028. Our report has categorized the market based on product type and application.

Breakup by Product Type:

Chassis Dyno
Engine Dyno

Breakup by Application:

Automotive OEM
Automotive Aftermarket

Breakup by Region:

Asia Pacific
Europe
North America
Middle East and Africa
Latin America

Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the key players being 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, and Froude, Inc.

Key Questions Answered in This Report
1. What was the size of the global automotive dyno market in 2022?
2. What is the expected growth rate of the global automotive dyno market during 2023-2028?

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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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Contents

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11 PORTERS FIVE FORCES ANALYSIS

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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