

# **Global Automotive E-compressor Market Size study, by Type (Pressure Decay Testing, Helium Sniff Testing) by End-use (Automotive & Transportation, Medical & Pharmaceutical, Packaging, Industrial, Aerospace and Defence, Power and Energy) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Automotive E-compressor Market is valued approximately at USD 1,730.7 million in 2023 and is anticipated to grow with a healthy growth rate of more than 11.30% over the forecast period 2024-2032. Automobile E-compressors are components in modern automobile systems that improve engine performance and efficiency, especially in vehicles with turbocharged or supercharged engines. This compressor works independently and helps to avoid turbo lag, which is the delay in power delivery that occurs with standard turbocharged engines. Furthermore, rising focus on sustainable transport solutions are gaining attention towards Global Automotive E-compressor Market. E-compressors enable automakers to design vehicles with smaller, more efficient combustion engines that produce fewer emissions while still delivering adequate performance.

Global Automotive E-compressor Market is driven by rising number of hybrid electric vehicles and increase in demand for fuel-efficient vehicles globally. Hybrid electric vehicles utilize both an internal combustion engine and an electric motor for propulsion. E-compressors play a crucial role in HEVs by providing immediate boost pressure to the engine when needed, thereby improving overall vehicle efficiency and performance. In addition, automakers are increasingly downsizing engines to improve fuel efficiency without compromising performance. Smaller engines consume less fuel but may lack the power required for certain driving conditions. E-compressors address this challenge

by providing immediate boost pressure, allowing downsized engines to deliver the performance of larger engines when needed, while still maintaining fuel efficiency. However, high cost of automotive e-compressor and risk of failure is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Automotive E-compressor market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the largest regional market in terms of revenue owing to factors such as increasing demand of hybrid vehicles across the region. E-compressors play a vital role in hybrid powertrains by providing immediate boost pressure to enhance the performance of smaller, downsized engines, thus compensating for any power deficits during acceleration or high-load conditions. Furthermore, the market in North America, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

Denso Corporation

Hanon Systems Co., Ltd

Valeo SA

Mahle GmbH

Sanden Holdings Corporation

Mitsubishi Heavy Industries, Ltd

Hitachi Automotive Systems, Ltd

LG Electronics Inc

Panasonic Holdings Corporation

Marelli Holdings Co., Ltd

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

by Type

Pressure Decay Testing

Helium Sniff Testing

by End-use

Automotive & Transportation

Medical & Pharmaceutical

Packaging

Industrial

Aerospace and Defence

Power and Energy

**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

Middle East &amp; 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 &amp; 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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