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Global Automotive Lead-Acid Battery Market Size Study, by Product (SLI Batteries, Micro Hybrid, Auxiliary), by Type (Flooded, VRLA), by End Use (Passenger Cars, Light & Heavy Commercial Vehicles, Two Wheelers, Three Wheelers), by Customer Segment (OEM, Aftermarket), and Regional Forecasts 2022-2032

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Abstracts

The global automotive lead-acid battery market is exhibiting a modest CAGR of 3.0% during the forecast period. Lead-acid batteries remain an indispensable component of the automotive industry, given their affordability, reliability, and proven performance in conventional internal combustion engine (ICE) vehicles. Despite the emergence of lithium-ion batteries, lead-acid batteries continue to dominate due to their cost-effectiveness and high recyclability.

Emerging economies, such as India, China, and Southeast Asia, are poised to drive significant growth in this market. These regions, characterized by robust automotive production and increasing vehicle ownership, demand affordable and reliable battery solutions. The lead-acid battery's compatibility with start-stop systems and its application across a diverse range of vehicle types have further cemented its position in the global automotive landscape.

The market for micro-hybrid batteries has gained substantial momentum, attributed to their ability to cater to fuel-efficient vehicles equipped with modern technologies. Enhanced Flooded Batteries (EFB) and Absorbed Glass Mat (AGM) batteries, which address the frequent charge-discharge cycles in start-stop systems, are witnessing significant advancements. Concurrently, traditional flooded batteries continue to cater to

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cost-sensitive consumer segments, ensuring their relevance in the marketplace.

Commercial vehicles also represent a crucial growth segment for lead-acid batteries, given their heavy reliance on these solutions for starting, lighting, and ignition (SLI) functions. The growth of logistics, construction, and transportation industries underscores the increasing adoption of lead-acid batteries for light and heavy commercial vehicles.

Regionally, North America emerges as a significant market for automotive lead-acid batteries. The region benefits from a well-established automotive manufacturing base, widespread battery replacement cycles, and a strong preference for reliable, cost-effective power solutions. Conversely, the Asia Pacific region is set to exhibit the fastest growth, driven by increasing automotive production and a growing demand for energy-efficient technologies.

EnerSys (US), Clarios (US), East Penn Manufacturing Company (US), GS Yuasa International Ltd. (Japan), and Exide Industries Ltd. (India) are key players in the automotive lead-acid battery market. These players are investing heavily in R&D and technological innovation, particularly in AGM and EFB battery technologies, to retain their competitive edge.

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

By Product

SLI Batteries

Micro Hybrid Batteries

Auxiliary Batteries

By Type

Flooded Batteries

Enhanced Flooded Batteries

VRLA (Absorbed Glass Mat Batteries)

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By End Use

- Passenger Cars
- Light & Heavy Commercial Vehicles
- Two Wheelers
- Three Wheelers

By Customer Segment

- OEM
- Aftermarket

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain

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- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022

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Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & 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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