

Global Vehicle Lightweighting Technologies Market Size study & Forecast, by High Strength Materials (Steel, Aluminum, Magnesium, Others) by Vehicle Type (Commercial Vehicles, Passenger Cars), and Regional Analysis, 2022-2029

https://marketpublishers.com/r/GA105525FA28EN.html

Date: May 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GA105525FA28EN

Abstracts

Global Vehicle Lightweighting Technologies Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2029. Lightweighting technology in automotive id introduced reduces vehicle weight. The weight of a car is decreased by replacing its spare parts with lightweight components. One of the key goals of lightweight engineering for the automotive industry is this. The utilization of aluminum has been improved, which has assisted automakers in achieving average corporate fuel efficiency norms. Currently, larger, and more powerful electric vehicles are among the biggest consumers of lightweight technology. The vehicle and engine are shrunk using various lightweight technologies as needed. Sometimes, carbon fibres are employed to lighten the vehicle. The High Strength Materials of carbon fibre can be expensive. Layering and treating carbon fibres carefully and precisely are necessary. Automobile drive shafts, aero plane wings, and other high strength materials are made of carbon. The Vehicle Lightweighting Technologies market is expanding because of factors such as rise in fuel efficiency demand and stringent government regulation.

Automobile manufacturers are concentrating on making lightweight automobiles to reduce CO2 emissions due to strict emissions restrictions brought on by increased exhaust emissions. One gramme of CO2 is thought to be saved every kilometer for every 10 kg of weight lost. The average fuel economy standard in the United States must reach 54.5 miles per gallon by 2025, according to the laws. According to the US Department of Energy (DOE), a 10% decrease in the vehicle's weight might result in an



improvement in fuel efficiency of 6-8%. Thus, the rising demand for fuel efficiency is catering for market growth. In addition, the development of advanced and affordable electric and autonomous vehicles is creating lucrative growth in the market. However, the high cost of vehicle lightweighting technologies may halt market growth.

The key regions considered for the Global Vehicle Lightweighting Technologies Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the market in terms of revenue, owing to the dominance of branded High Strength Materialss and stringent government regulation. Whereas Europe is expected to grow with the highest CAGR during the forecast period, owing to factors such as the rising automotive industry, an increase in the number of collaborations for technological development, geographic expansion of key players, active participation of government and nonprofit organizations in the market space.

Major market player included in this report are:

3M Co.

Adjent Plc

Aisin Corporation

Aptiv Plc

Arconic Gmbh

Basf Corp.

Benteler Automotive India Pvt Ltd

BMW Group

Borgwarner Inc.

Brose Fahrzeugteile Gmbh & Co.KG

Recent Developments in the Market:

In May 2019, Thermoplastic Polyurethane (TPU) and a plastics intensification facility were built by BASF SE at the company's planned coordinated synthetic High Strength Materials site in Zhanjiang, China.

Global Vehicle Lightweighting Technologies Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered High Strength Materials, Vehicle Type, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World



Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and High Strength Materials offerings of key players. The detailed segments and sub-segment of the market are explained below:

By High Strength Materials:

Steel

Aluminum

Magnesium

Others

By Vehicle Type:

Commercial Vehicles

Passenger Cars

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

RoLA

Rest of the World



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