

Automotive Body-in-White Market by Material Type (Aluminum, Steel, Composites, and Others), Vehicle Type (Passenger vehicles, Commercial vehicles), Propulsion Type (IC engines, Electric vehicles), Material Joining Technique (Welding, Clinching, Laser brazing, Bonding, and Others), and Region 2024-2032

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Abstracts

The global automotive body-in-white market size reached US\$ 98.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 120.5 Billion by 2032, exhibiting a growth rate (CAGR) of 2.18% during 2024-2032. The technological advancements, stringent regulations, and changing consumer preferences, represent some of the key factors driving the market.

Automotive body-in-white (BIW) refers to the stage in automotive production where the metal body structure of a car is assembled, before any exterior components such as doors, hood, and trunk lid are added. It typically includes the main frame or unibody structure, as well as the subframes, cross members, and other support structures that form the foundation of the vehicle. The BIW is often manufactured separately from the rest of the car, allowing for greater flexibility in production and assembly. The BIW is then transported to the assembly plant, where it is fitted with other components such as the engine, transmission, and interior. It is a critical component of the overall design of a vehicle, as it determines factors such as strength, rigidity, and crashworthiness. Automakers use advanced simulation tools to design and optimize the BIW for maximum performance, often using lightweight materials such as aluminum or carbon fiber to improve fuel efficiency and reduce emissions.

Automotive Body-in-White Market Trends:



One of the primary factors driving the market is the increasing demand for lightweight and fuel-efficient vehicles. Additionally, the shift toward electric and hybrid vehicles has also led to an increased focus on lightweight materials and structural design, which are key components of the BIW. Other than this, the growing trend toward automation and Industry 4.0, and advances in robotics, artificial intelligence, and digitalization are making it easier and more cost-effective to produce complex BIW structures while also improving quality and reducing waste, which is creating a positive market outlook. Besides this, regulations and safety standards are escalating the demand for more advanced and sophisticated automotive BIW structures. Moreover, several key players are focusing on meeting stringent emissions and safety requirements, encouraging them to develop new materials and technologies that can improve the performance and safety of their vehicles. Furthermore, the global automotive market is experiencing strong growth, particularly in emerging markets such as China and India, due to rapid urbanization, increasing disposable incomes, and changing lifestyles. As more consumers in these regions are able to afford cars, demand for automotive BIW structures is expected to rise significantly.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive body-in-white market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on the material type, vehicle type, propulsion type, and joining technique.

Material Type Insights:

Aluminum
Steel
Composites
Others

The report has provided a detailed breakup and analysis of the automotive body-inwhite market based on the material type. This includes aluminum, steel, composites, and others. According to the report, steel represented the largest segment.

Vehicle Type Insights:

Passenger vehicles
Commercial vehicles



A detailed breakup and analysis of the automotive body-in-white market based on the vehicle type has also been provided in the report. This includes passenger vehicles and commercial vehicles. According to the report, passenger vehicles accounted for the largest market share.

Propulsion Type Insights:

IC engines

Electric vehicles

The report has provided a detailed breakup and analysis of the automotive body-inwhite market based on the propulsion type. This includes IC engines and electric vehicles.

Material Joining Technique Insights:

Welding Clinching

Laser brazing

Bonding

Others

A detailed breakup and analysis of the automotive body-in-white market based on the material joining technique has also been provided in the report. This includes welding, clinching, laser brazing, bonding, and others. According to the report, welding accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia



Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for automotive body-in-white. Some of the factors driving the Asia Pacific automotive body-in-white market included growing demand for lightweight materials, increasing automotive production, and technological advancements.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive body-in-white market. Detailed profiles of all major companies have also been provided. Some of the companies covered include ABB Ltd., Benteler International AG, CIE Automotive, Dura Automotive Systems, Gestamp Automocion S.A., Kuka AG, Magna International Inc., Martinrea International Inc., Norsk Hydro ASA, Tata Steel Limited, TECOSIM Group, thyssenkrupp AG, 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:

How has the global automotive body-in-white market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive body-in-white



market?

What is the impact of each driver, restraint, and opportunity on the global automotive body-in-white market?

What are the key regional markets?

Which countries represent the most attractive automotive body-in-white market?

What is the breakup of the market based on the material type?

Which is the most attractive material type in the automotive body-in-white market?

What is the breakup of the market based on the vehicle type?

Which is the most attractive vehicle type in the automotive body-in-white market?

What is the breakup of the market based on the propulsion type?

Which is the most attractive propulsion type in the automotive body-in-white market?

What is the breakup pf the market based on the material joining technique?

Which is the most attractive material joining technique in the automotive body in-white market?

What is the competitive structure of the global automotive body-in-white market? Who are the key players/companies in the global automotive-body-white market?



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