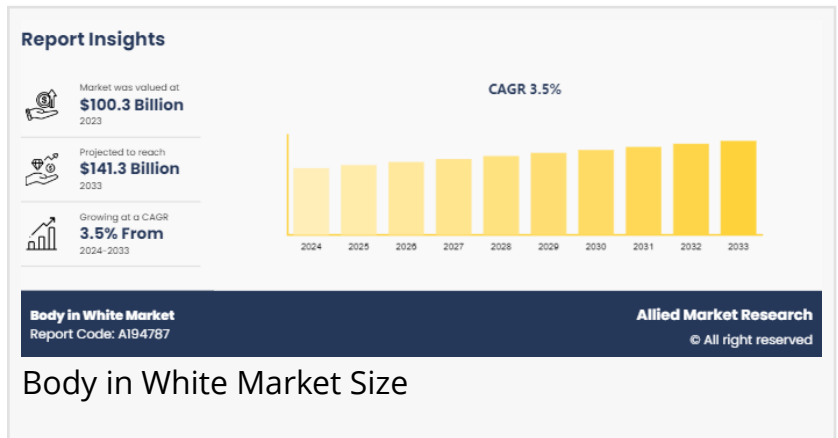


# Body-in-White Market Size to Hit \$141.3 Billion by 2033, Riding a 3.5% CAGR Wave – Insights from Allied Market Research

*The demand for body in white (BIW) is driven by the increasing need for enhanced performance, safety, and efficiency in automotive design.*

WILMINGTON, NEW CASTLE, DE, UNITED STATES, January 27, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "Body in White Market by Vehicle Type (Passenger Cars, Light Commercial Vehicles, Medium & Heavy Commercial Vehicles, and Electric Vehicles), Material Type (Steel, Aluminum, Magnesium and CFRP), Manufacturing Method (Cold Stamping, Hot Stamping, Roll Forming, and Others), and Construction Type (Monocoque and Frame Mounted): Global Opportunity Analysis and Industry Forecast, 2024-2033".



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· In April 2024, ArcelorMittal expanded its Multi Part Integration (MPI) steel solution into Japan through a strategic partnership with G-Tekt, a company closely collaborating with automakers on new vehicle models. This initiative involves a partial ablation license agreement, integrating various vehicle components into laser welded blanks (LWBs) . This innovation aims to enhance structural strength, reduce weight in body in white assemblies, streamline production, improve vehicle performance, and achieve substantial CO2 emissions reductions, highlighting ArcelorMittal's dedication to advancing automotive manufacturing efficiency and sustainability.

· In March 2024, Canada-based automotive parts manufacturer, Magna unveiled new solutions

for multi-OEM contract manufacturing, improving flexibility and precision in body in white (BIW) production. The company's patented Flexible Geo Skid technology enables seamless integration of various vehicle underbodies on a single assembly line, ensuring high manufacturing precision and adaptability. Enhanced by advanced automation and real-time tolerance monitoring systems, Magna facilitates uninterrupted production and rapid integration of new product series.

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The body in white market growth is driven by the automotive industry's pursuit of lightweight, fuel-efficient vehicles. This shift necessitates advanced BIW designs that reduce overall vehicle weight while enhancing strength and manufacturing cost-efficiency. Furthermore, global vehicle production expansion and technological advancements continue to push BIW engineers towards developing sustainable, cost-effective solutions that improve vehicle performance and safety. Despite its advancements, the body in white market faces challenges such as high initial investment costs in new materials and technologies like carbon fiber and advanced alloys. Integration complexities also pose challenges, requiring specialized manufacturing processes and tooling. The expanding body in white market offers abundant opportunities for the leading automotive manufacturers and technology firms globally. Opportunities include contributing to vehicle safety advancements, aesthetic improvements, and reducing production cycle times, thereby shaping the future of automotive design and manufacturing.

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□□□□□ □□□□□ □□., □□□. (□□□□□□) : Honda is another major player in the automotive industry, focusing on advanced BIW technologies to enhance vehicle safety and performance.

□□□□□□ □□□□□ □□., □□□. (□□□□□□) : Nissan utilizes BIW solutions extensively across its production lines to achieve precision and reliability in vehicle assembly.

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□□□ □□□□□□□□□□□□□□ (□□□□□□ □□□□□□) : Kia leverages BIW solutions to produce vehicles known for their design, reliability, and technological advancements.

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Body in white (BIW) is extensively used in passenger cars due to several key factors. BIW provides structural integrity, crucial for ensuring safety during collisions while maintaining vehicle stability and handling. Also, the number of passenger cars in countries namely China, the U.S., and India is increasing rapidly. For instance, China alone sold over 20 million passenger cars in 2021, highlighting robust growth in the automotive sector. This surge in vehicle ownership necessitates advanced BIW technologies to meet production demands efficiently while enhancing vehicle safety, performance, and fuel efficiency.

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Aluminum is widely favored in body in white (BIW) due to its exceptional properties that enhance vehicle performance and efficiency. Its lightweight nature approximately one-third the weight of steel significantly reduces overall vehicle weight, improving fuel efficiency and handling dynamics. Aluminum's high strength-to-weight ratio enhances structural integrity, crucial for meeting stringent safety standards while allowing for intricate and innovative design possibilities.

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Hot stamping has gained popularity in body in white (BIW) manufacturing, as this process enables the fabrication of complex shapes with excellent strength-to-weight ratios, optimizing structural integrity without compromising design flexibility. Moreover, hot stamping reduces material waste and energy consumption compared to traditional methods, aligning with sustainable manufacturing practices.

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Monocoque construction is popular in body in white (BIW) due to its inherent structural efficiency and weight-saving benefits. By integrating the body and chassis into a single unit, monocoque designs reduce overall vehicle weight while enhancing rigidity and handling dynamics. This construction method maximizes interior space utilization and allows for streamlined manufacturing processes, resulting in improved fuel efficiency and lower emissions.

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The demand for body in white in Asia-Pacific is majorly driven by countries like China, Japan, South Korea, and India that are witnessing robust growth in automotive production and sales. Moreover, advancements in materials like aluminum and carbon fiber are driving innovation in BIW manufacturing across the region. As automotive OEMs in Asia-Pacific strive for competitiveness and sustainability, BIW demand continues to grow in this region.

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- Gestamp Automoción
- AISIN CORPORATION
- BENTELER International Aktiengesellschaft
- CIE Automotive
- Voestalpine Group
- thyssenkrupp AG
- Martinrea International Inc.
- Tower International
- KIRCHHOFF Automotive AG

The report provides a detailed analysis of these key players in the global body in white market trends. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions.

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Allied Market Research (AMR) is a full-service market research and business-consulting wing of

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