

# **Automotive Steel Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Process (Basic Oxygen Furnace, Electric Arc Furnace), By Product (Low-strength Steel, Conventional HSS, Advanced High Strength Steel (AHSS), Others), By Vehicle Type (Passenger Car, Commercial Vehicle), By Region & Competition, 2019-2029F**

<https://marketpublishers.com/r/A5FBEF9849A5EN.html>

Date: December 2024

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: A5FBEF9849A5EN

## **Abstracts**

The Global Automotive Steel Market size reached USD 125.79 Billion in 2023 and is expected to reach USD 186.47 Billion, growing with a CAGR of 6.80% in the forecast period. The global automotive steel market has experienced significant growth due to its essential role in vehicle manufacturing. Steel continues to be a preferred material in automotive production because of its high strength, durability, and cost-effectiveness. As the automotive industry emphasizes lightweighting and fuel efficiency, manufacturers are exploring advanced high-strength steels (AHSS) that offer superior strength-to-weight ratios. This shift is driven by the growing demand for vehicles that meet stringent environmental regulations without compromising on safety and performance. As technological advancements in steel production continue, automotive manufacturers are adopting innovative steel grades that provide enhanced safety, better fuel efficiency, and reduced CO2 emissions.

Technological advancements play a major role in driving market expansion. Innovations in steel production, such as the development of ultra-high-strength steel, are offering automakers opportunities to improve the performance of their vehicles. These new materials help in reducing the vehicle weight without compromising structural integrity,

making them ideal for electric and hybrid vehicles, where every kilogram saved can enhance performance and energy efficiency. Moreover, the rising demand for electric vehicles (EVs) is fostering the development of lighter steel options that support longer battery ranges and better overall efficiency. The automotive industry's focus on sustainability is pushing for further advancements in steel materials, making it a key enabler of green vehicle technologies.

## Key Market Drivers

### Rising Demand for Lightweight Vehicles

The automotive industry is focusing on reducing vehicle weight to improve fuel efficiency and meet stringent emissions standards. Advanced high-strength steel (AHSS) allows for a reduction in weight without sacrificing strength or safety, making it a preferred material for automakers. This trend aligns with the increasing global push for better fuel economy, especially for electric and hybrid vehicles. Lighter vehicles consume less energy, offering better performance and lower emissions, which further drives the demand for advanced steel solutions.

### Technological Advancements in Steel Production

Advancements in steel-making technologies have made it possible to produce more specialized and high-performance steel grades. Innovations such as electric arc furnaces (EAF) and continuous casting processes have increased the efficiency of steel production, making it more cost-effective and sustainable. These advancements enable automakers to use stronger, lighter, and more durable steel, improving vehicle safety, performance, and design flexibility. New production techniques are also helping to meet the rising demand for customized steel alloys in the automotive sector.

### Government Regulations and Sustainability Goals

Governments worldwide are tightening emissions regulations, pushing the automotive industry to adopt greener technologies and materials. Steel manufacturers are responding by producing more sustainable and recyclable steel, which helps automakers meet both environmental and regulatory standards. Steel is recyclable, which adds a layer of sustainability to its use, and it can be used in various parts of a vehicle, contributing to its circular economy goals. Regulatory pressure has been a strong driver for the adoption of more eco-friendly materials in vehicle manufacturing.

## Rising Consumer Preferences for Durability and Safety

Consumers are increasingly prioritizing durability, safety, and longevity in vehicles. Automotive steel provides a strong foundation for these requirements, offering excellent crash protection and long-lasting performance. With a growing awareness of vehicle safety features, consumers are pushing automakers to use stronger and more reliable materials, further driving the demand for high-quality automotive steel. The material's ability to provide both structural strength and resistance to wear and corrosion makes it the preferred choice for manufacturers aiming to meet consumer expectations for durability and safety.

## Key Market Challenges

### Fluctuating Steel Prices

One of the significant challenges for the automotive steel market is the volatility in steel prices. Steel prices can fluctuate due to factors like raw material costs, geopolitical tensions, or shifts in demand from other industries. This unpredictability makes it difficult for automotive manufacturers to forecast costs accurately, impacting their profitability. Manufacturers must factor in potential cost increases or decreases, which can affect their pricing strategies and overall financial performance.

### Competition from Alternative Materials

The automotive industry is increasingly exploring materials such as aluminum, carbon fiber, and composites, which can offer lighter, stronger, or more energy-efficient alternatives to steel. While steel is cost-effective and highly versatile, these alternatives are gaining traction, particularly in the luxury and performance vehicle segments. Manufacturers must balance the cost-effectiveness and performance benefits of steel with the growing interest in these alternative materials, which poses a challenge in maintaining steel's market share.

### Environmental Impact of Steel Production

Steel production is energy-intensive and contributes to carbon emissions, making it a challenge for the automotive steel industry to align with growing sustainability goals. Governments and consumers are increasingly prioritizing environmentally friendly practices, creating pressure for steel producers to reduce their carbon footprints. The energy consumption required for steel manufacturing and the carbon emissions

associated with traditional production methods present challenges for the automotive sector, as they must transition to greener alternatives while maintaining product quality and competitiveness.

## Key Market Trends

### Increased Use of Advanced High-Strength Steel (AHSS)

The ongoing development of high-strength steel alloys has become a key trend in the automotive steel market. These advanced alloys offer superior performance, including better impact resistance, improved fatigue resistance, and enhanced weight reduction potential. Automakers are increasingly adopting these materials to improve vehicle safety while reducing weight. The trend towards high-strength steel reflects the automotive industry's need to balance performance, safety, and environmental concerns, making it a significant area of innovation.

### Advanced Coating Technologies

Corrosion resistance is crucial for vehicle longevity. Steel manufacturers are investing in advanced coating technologies that provide superior protection against rust and corrosion, ensuring vehicles remain durable and reliable over their lifespan.

In December 2023, Abilities India Pistons & Rings Ltd was awarded a patent for its cutting-edge coating technology for pistons and cylinders. This new coating showed impressive results in lowering friction, wear, and emissions, and reducing fuel consumption by 2-3%. The technology also provided enhanced hardness, wear resistance, and adhesion, representing a major advancement in engine components.

### Integration of Advanced Manufacturing Technologies

Automation and digitalization are transforming steel production. Industry 4.0 technologies, such as AI-driven quality control, predictive maintenance, and smart manufacturing, are being integrated into steel mills to enhance efficiency and quality. For instance, in December 2023, Tata Steel obtained the GreenPro Ecolabel from the Confederation of Indian Industries (CII) for its automotive flat steel products. This certification, awarded by CII's Green Business Centre, highlighted Tata Steel's efforts in meeting environmental standards. The GreenPro ecolabel recognized Tata Steel's commitment to sustainability and environmental performance.

## Strong Partnerships with Automakers

Steel manufacturers are forging strong partnerships with automakers to co-develop innovative steel solutions. Collaboration ensures that steel products meet the specific requirements of new vehicle models, especially in the growing EV segment. In November 2023, SSAB and Gestamp, a leading Spanish automotive supplier, initiated a partnership to provide fossil-free steel for automotive body-in-white and chassis components. This agreement expanded their existing collaboration, involving all phases from sales and production to testing and customer service. The partnership highlighted their dedication to sustainable and innovative steel solutions in the automotive sector.

## R&D in Next-Generation Steels

Continuous research and development are essential for the industry's evolution. Manufacturers are investing in next-generation steels, including ultra-high-strength steel (UHSS) and nanostructured steel, which offer superior strength and durability compared to traditional steel grades.

These trends reflect the automotive industry's ongoing commitment to safety, efficiency, and sustainability. Steel remains a vital material in vehicle construction, and its adaptability and innovation will play a significant role in shaping the future of automotive manufacturing.

## Segmental Insights

### Product Insights

The global automotive steel market is segmented by product into low-strength steel, conventional high-strength steel (HSS), advanced high-strength steel (AHSS), and others, each serving distinct roles in vehicle production. Low-strength steel is widely used in the automotive industry due to its cost-effectiveness and ease of processing. This type of steel is typically employed for non-structural components and parts that do not require high tensile strength. While it lacks the durability and strength of other steel types, it still plays a vital role in the mass production of vehicles, offering manufacturers a low-cost material for various applications like body panels and interior parts.

Conventional high-strength steel (HSS) has become a critical material in the automotive sector, providing a balance between strength and formability. This steel is used in structural components of vehicles where more robust material properties are necessary

for safety and performance. HSS is essential for components like chassis, bumpers, and door reinforcements, offering improved performance compared to low-strength steel while maintaining manufacturability. As vehicle safety standards become more stringent, the demand for high-strength steel continues to rise, as it contributes significantly to a vehicle's crashworthiness and overall structural integrity.

Advanced high-strength steel (AHSS) has gained increasing importance in the automotive market due to its superior strength-to-weight ratio. AHSS is engineered to provide exceptional durability and resistance to deformation while keeping the vehicle weight low. This makes it an ideal material for structural and safety-critical components such as the car's body, doors, and roof. AHSS helps automakers improve fuel efficiency by reducing the weight of the vehicle without compromising safety. The material is designed to meet the rising demand for lightweight, energy-efficient vehicles, which is particularly important in the context of the growing electric vehicle market.

Other types of automotive steel include specialized alloys and composite steels that are used for specific applications requiring unique properties, such as resistance to high temperatures or corrosion. These materials are designed for niche applications where performance characteristics like heat resistance or flexibility are essential. Though they represent a smaller portion of the market, these steel types serve critical functions in specialized automotive components like exhaust systems, engine parts, and underbody coatings. Each type of steel offers distinct advantages that make it suitable for different automotive applications, providing manufacturers with a wide range of material options to meet diverse performance, safety, and cost requirements.

## Regional Insights

In 2023, the Asia-Pacific region stands out as the dominant player in the global automotive steel market. This region has experienced substantial growth, driven by strong automotive manufacturing activities and a rapidly expanding consumer base. Asia-Pacific's dominance is largely attributed to its significant automotive production hubs, including countries such as China, Japan, South Korea, and India. The demand for steel in automotive applications is directly linked to the increasing production of both traditional internal combustion engine vehicles and electric vehicles (EVs), where steel plays a vital role in ensuring durability, safety, and performance.

China, in particular, remains the largest producer and consumer of automotive steel in the region. The country's automotive industry, the largest in the world, continuously demands high volumes of steel for the production of a wide range of vehicles, from



compact cars to commercial trucks. The emphasis on innovation and the push toward electric vehicles also contribute to the growing need for specialized steel, such as advanced high-strength steels (AHSS) and lightweight materials. Furthermore, China's focus on infrastructure development and increasing investments in EVs has accelerated steel consumption in automotive manufacturing.

Other countries in the Asia-Pacific region, such as Japan and South Korea, also play crucial roles in the market. These countries are home to some of the world's leading automotive manufacturers, driving continuous innovation and efficiency in automotive steel applications. Japan's automotive sector, known for its precision engineering and cutting-edge technology, requires advanced steel solutions to meet the high safety and performance standards demanded by consumers. Similarly, South Korea's automotive industry continues to adopt new steel grades to stay competitive in the global market.

India is emerging as an important player in the automotive steel market, with a rapidly growing vehicle manufacturing sector and an increasing demand for steel in automotive production. The expansion of the country's automotive industry is supported by favorable government policies, rising disposable incomes, and a growing middle class, which has contributed to a greater demand for vehicles and, consequently, steel.

The combination of robust automotive production, technological advancements in steel, and increasing demand for both conventional and electric vehicles has solidified Asia-Pacific's position as the dominant region in the global automotive steel market in 2023. This trend is expected to continue as the region continues to drive automotive innovation and remains a key manufacturing hub for the global automotive industry.

### Key Market Players

ArcelorMittal SA

China Steel Corporation

JFE Steel Corporation

NIPPON STEEL CORPORATION

Nucor Corporation

Tata Steel Limited

United States Steel Corporation

Grow Ever Steel (India) Private Limited

Hyundai Steel Co., Ltd.

Steel Dynamics, Inc.

#### Report Scope:

In this report, the Global Automotive Steel Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

##### Automotive Steel Market, By Process:

Basic Oxygen Furnace

Electric Arc Furnace

##### Automotive Steel Market, By Product:

Low-strength Steel

Conventional HSS

Advanced High Strength Steel (AHSS)

Others

##### Automotive Steel Market, By Vehicle Type:

Passenger Car

Commercial Vehicle

##### Automotive Steel Market, By Region:



North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Steel Market.

## Available Customizations:

Global Automotive Steel Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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##### **14.1.2.4. Recent Developments**

##### **14.1.2.5. Key Management Personnel**

#### **14.1.3. JFE Steel Corporation**

##### **14.1.3.1. Company Details**

##### **14.1.3.2. Key Product Offered**

##### **14.1.3.3. Financials (As Per Availability)**

##### **14.1.3.4. Recent Developments**

##### **14.1.3.5. Key Management Personnel**

#### **14.1.4. NIPPON STEEL CORPORATION**

##### **14.1.4.1. Company Details**

##### **14.1.4.2. Key Product Offered**

##### **14.1.4.3. Financials (As Per Availability)**

##### **14.1.4.4. Recent Developments**

##### **14.1.4.5. Key Management Personnel**

#### **14.1.5. Nucor Corporation**

##### **14.1.5.1. Company Details**

##### **14.1.5.2. Key Product Offered**

##### **14.1.5.3. Financials (As Per Availability)**

##### **14.1.5.4. Recent Developments**

##### **14.1.5.5. Key Management Personnel**

#### **14.1.6. Tata Steel Limited**

##### **14.1.6.1. Company Details**

##### **14.1.6.2. Key Product Offered**

- 14.1.6.3. Financials (As Per Availability)
- 14.1.6.4. Recent Developments
- 14.1.6.5. Key Management Personnel
- 14.1.7. United States Steel Corporation
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  - 14.1.7.4. Recent Developments
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  - 14.1.9.1. Company Details
  - 14.1.9.2. Key Product Offered
  - 14.1.9.3. Financials (As Per Availability)
  - 14.1.9.4. Recent Developments
  - 14.1.9.5. Key Management Personnel
- 14.1.10. Steel Dynamics, Inc.
  - 14.1.10.1. Company Details
  - 14.1.10.2. Key Product Offered
  - 14.1.10.3. Financials (As Per Availability)
  - 14.1.10.4. Recent Developments
  - 14.1.10.5. Key Management Personnel

## **15. STRATEGIC RECOMMENDATIONS**

- 15.1. Key Focus Areas
  - 15.1.1. Target Regions
  - 15.1.2. Target Vehicle Type
  - 15.1.3. Target Process

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