

Automotive Collapsible Steering Column Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Vehicles and Commercial Vehicles), By Drive Type (4-Wheel Drive, Rear Wheel Drive, All Wheel Drive), By Material (Mild Steel, Carbon Steel, High Strength Forged Steel, Others), By Region, Competition, 2019-2029F

https://marketpublishers.com/r/A0469E8AC407EN.html

Date: May 2024

Pages: 180

Price: US\$ 4,900.00 (Single User License)

ID: A0469E8AC407EN

# **Abstracts**

The Global Automotive Collapsible Steering Column Market size reached USD 33.64 Billion in 2023 and is expected to grow with a CAGR of 7.64% through 2029. The Global Automotive Collapsible Steering Column Market revolves around the design and production of steering columns equipped with collapsible features, enhancing vehicle safety in the event of a collision. The primary purpose of a collapsible steering column is to minimize the risk of injury to the driver by absorbing impact energy during a frontal collision. This safety feature is crucial in modern vehicles, aligning with global safety standards and regulations.

One of the key drivers for the adoption of collapsible steering columns is the increasing focus on passenger safety across the automotive industry. Automakers prioritize the implementation of advanced safety features to meet stringent safety regulations and enhance the overall crashworthiness of vehicles. Collapsible steering columns contribute significantly to reducing the risk of chest and head injuries for the driver in the event of a frontal impact.

Technological advancements play a pivotal role in shaping the Automotive Collapsible



Steering Column Market. The integration of sensors and electronic control units enhances the responsiveness of collapsible steering columns, enabling them to deploy in real-time during a collision. Additionally, innovations in materials, such as advanced high-strength steel and composites, contribute to the structural integrity and effectiveness of collapsible steering columns.

Regional variations influence market dynamics, with different regions prioritizing safety standards to varying degrees. Developed automotive markets, such as North America and Europe, often lead in the adoption of advanced safety technologies, including collapsible steering columns. Emerging markets, driven by increasing consumer awareness and regulatory developments, contribute to the overall growth of the market.

**Key Market Drivers** 

Mandatory Safety Regulations

A primary driver in the Global Automotive Collapsible Steering Column Market is the stringent set of safety regulations imposed by governments and international bodies. Various safety standards, such as those outlined by the National Highway Traffic Safety Administration (NHTSA) in the United States and the European New Car Assessment Programme (Euro NCAP), mandate the implementation of advanced safety features, including collapsible steering columns. Compliance with these regulations propels automakers to integrate this crucial safety element into their vehicle designs.

#### Focus on Occupant Protection

The increasing emphasis on occupant protection and overall vehicle safety is a key driver shaping the demand for collapsible steering columns. As consumers become more conscious of safety features in their vehicles, automakers prioritize technologies that mitigate the impact of collisions. Collapsible steering columns play a pivotal role in reducing the risk of serious injuries to the driver during frontal impacts, thereby aligning with consumer expectations for enhanced safety standards.

### Rising Incidence of Road Accidents

The global rise in road accidents has heightened awareness regarding the importance of safety measures in vehicles. Collapsible steering columns are instrumental in minimizing the risk of injury by absorbing impact energy during a crash. The increasing prevalence of road accidents globally acts as a driver for the Automotive Collapsible



Steering Column Market, compelling manufacturers to adopt advanced safety technologies to address this critical aspect of vehicle design.

# Advancements in Materials and Manufacturing

Ongoing advancements in materials science and manufacturing processes contribute to the evolution of collapsible steering columns. The integration of high-strength materials, such as advanced steel alloys and composites, enhances the structural integrity and energy absorption capabilities of these safety components. Innovations in manufacturing techniques allow for more efficient production, driving the market toward cost-effective and technologically advanced solutions.

# Consumer Demand for Safety Features

Consumer preferences for vehicles equipped with robust safety features exert significant influence on the adoption of collapsible steering columns. As awareness regarding the potential risks of road accidents grows, consumers actively seek vehicles that prioritize safety. Automakers respond to this demand by incorporating advanced safety technologies, including collapsible steering columns, as a key selling point, thus driving market growth.

### Technological Integration and Sensors

The integration of sensors and electronic control units (ECUs) in modern vehicles is a technological driver for collapsible steering columns. Advanced sensor systems can detect the severity of a collision and trigger the deployment of the collapsible mechanism in real-time. This integration enhances the responsiveness and effectiveness of collapsible steering columns, aligning with the broader trend of smart and connected vehicles.

### Globalization of Automotive Supply Chains

The globalization of automotive supply chains has facilitated the widespread adoption of advanced safety technologies, including collapsible steering columns. Suppliers and manufacturers collaborate globally, sharing expertise and technological know-how to implement safety features consistently across various vehicle models. This interconnectedness of the automotive supply chain contributes to the standardization of safety components and drives advancements in the Automotive Collapsible Steering Column Market.



## Insurance Industry Influence

The insurance industry plays a role in driving the adoption of safety features, as reduced injury risks translate into lower insurance costs for vehicle owners. Insurers often incentivize the installation of advanced safety technologies, including collapsible steering columns, by offering favorable premiums. This influence creates a market driver, encouraging both automakers and consumers to prioritize the inclusion of these safety features in vehicles.

Key Market Challenges

Cost Constraints and Affordability

One of the primary challenges facing the Global Automotive Collapsible Steering Column Market is the inherent cost associated with developing and implementing advanced safety technologies. The integration of sophisticated materials, sensors, and manufacturing processes required for collapsible steering columns can lead to increased production costs. Striking a balance between meeting safety standards and maintaining affordability for consumers poses a significant challenge for automakers, especially in price-sensitive market segments.

### Complex Design and Engineering

The design and engineering complexity of collapsible steering columns present a formidable challenge for manufacturers. Achieving the delicate balance between structural integrity and controlled collapse during a collision requires intricate engineering solutions. Designing collapsible mechanisms that reliably activate in varying crash scenarios without compromising overall steering performance demands sophisticated engineering expertise, contributing to development challenges for automotive engineers.

Integration with Advanced Vehicle Technologies

The automotive industry's rapid integration of advanced technologies, such as autonomous driving features and electronic control systems, poses a challenge for the seamless integration of collapsible steering columns. Ensuring compatibility and cohesiveness with other sophisticated vehicle systems, including those related to connectivity and automation, requires careful coordination and presents a technological



hurdle for manufacturers.

## Variability in Regulatory Standards

The Global Automotive Collapsible Steering Column Market faces challenges arising from the variability in regulatory standards across regions. Different countries and regulatory bodies may have distinct safety requirements, testing procedures, and standards for collapsible steering columns. Harmonizing these standards to create a universally accepted set of safety regulations poses a challenge for global automakers, influencing design variations and production processes to meet diverse compliance criteria.

# **Testing and Certification Complexity**

Rigorous testing and certification processes are integral to ensuring the reliability and effectiveness of collapsible steering columns. Meeting the diverse testing standards set by regulatory authorities involves extensive and resource-intensive testing protocols. The complexity of these procedures, which include crash testing and simulations, presents a challenge for manufacturers to expedite product development timelines while ensuring compliance with stringent safety benchmarks.

### Consumer Perception and Acceptance

Despite the clear safety benefits, there may be challenges in consumer perception and acceptance of collapsible steering columns. Educating consumers about the necessity and effectiveness of these safety features, especially as they relate to frontal collision scenarios, poses a challenge for automakers. Addressing potential concerns and ensuring that consumers recognize the value of these features is essential for widespread adoption.

### **Durability and Long-Term Reliability**

Ensuring the long-term durability and reliability of collapsible steering columns throughout the lifespan of a vehicle is a significant challenge. Exposure to environmental factors, wear and tear, and extended usage may impact the structural integrity and performance of these safety components over time. Manufacturers face the challenge of designing collapsible systems that withstand extended use without compromising safety standards.



# Aftermarket Integration and Retrofitting

The challenge of integrating collapsible steering columns into existing vehicle fleets, especially in the aftermarket segment, poses logistical and technical difficulties. Retrofitting older vehicles with advanced safety features requires careful consideration of compatibility, structural modifications, and feasibility. Navigating the aftermarket space and addressing the challenges associated with retrofitting pose unique obstacles for the broader adoption of collapsible steering columns.

**Key Market Trends** 

# Integration of Advanced Materials

A prominent trend in the Global Automotive Collapsible Steering Column Market is the increasing integration of advanced materials to enhance safety and performance. Manufacturers are exploring materials such as high-strength steel alloys, aluminum, and composites to optimize the structural integrity of collapsible steering columns. These materials contribute to the reduction of weight while ensuring robust crashworthiness, aligning with the industry's broader trend toward lightweighting for improved fuel efficiency and safety.

### Smart Sensor Technologies

The incorporation of smart sensor technologies is a significant trend shaping the Automotive Collapsible Steering Column Market. Advanced sensors, including accelerometers and gyroscopes, are being integrated into steering columns to enable real-time detection of collision forces and angles. This data is crucial for triggering the precise deployment of collapsible mechanisms, enhancing the responsiveness and effectiveness of these safety components.

#### Focus on Electric and Autonomous Vehicles

With the growing emphasis on electric and autonomous vehicles, a notable trend in the market is the adaptation of collapsible steering columns to suit the requirements of these innovative vehicle types. Electric vehicles (EVs) often feature steer-by-wire systems, and collapsible steering columns designed for compatibility with these systems are becoming increasingly prevalent. Additionally, the integration of collapsible columns aligns with the safety considerations inherent in autonomous driving technologies.



# Customization for Vehicle Segments

The Automotive Collapsible Steering Column Market is witnessing a trend toward customization to cater to different vehicle segments. Manufacturers are tailoring collapsible steering columns to meet the specific safety needs and design preferences of various vehicle categories, including compact cars, SUVs, and commercial vehicles. This trend aligns with the industry's recognition of diverse consumer demands and safety requirements across different automotive segments.

#### Rise in E-Commerce for Aftermarket Sales

The rise of e-commerce platforms for aftermarket sales is influencing how collapsible steering columns are distributed and sold. Consumers can now access a wide range of safety components online, facilitating easier procurement for retrofits and replacements. This trend simplifies the aftermarket supply chain and provides consumers with convenient options for upgrading safety features in existing vehicles.

### Global Collaboration on Safety Standards

Given the global nature of the automotive industry, a trend is emerging toward increased collaboration on safety standards. Manufacturers are actively engaging in global initiatives to harmonize safety regulations and testing procedures for collapsible steering columns. This trend aims to create a unified set of safety standards, reducing complexities associated with compliance in diverse regional markets.

# Human-Machine Interface (HMI) Innovations

Human-Machine Interface (HMI) innovations are impacting the design of collapsible steering columns. Manufacturers are exploring ways to integrate HMI elements directly into steering columns, enhancing the user experience. This includes touch-sensitive controls, haptic feedback, and display features that provide drivers with information related to vehicle safety and operation.

#### **Environmental Sustainability**

A growing trend in the Automotive Collapsible Steering Column Market is the focus on environmental sustainability. Manufacturers are exploring eco-friendly materials and production processes to align with broader industry goals of reducing environmental impact. This trend reflects a commitment to sustainability, encompassing the entire



lifecycle of collapsible steering columns, from material sourcing to end-of-life recycling.

Segmental Insights

By Vehicle Type

The Passenger Vehicle segment is a significant driver of demand in the Automotive Collapsible Steering Column Market. With a growing focus on safety and advanced features in personal transportation, collapsible steering columns have become a standard inclusion in various passenger vehicle models. Consumers increasingly prioritize safety features when purchasing cars, and automakers respond by integrating collapsible steering columns to enhance occupant protection during collisions. This segment encompasses a wide range of vehicles, including sedans, hatchbacks, SUVs, and crossovers, reflecting the diverse applications of collapsible steering column technology in the passenger vehicle market.

In the Commercial Vehicle segment, collapsible steering columns are gaining traction as a critical safety feature, particularly in trucks, buses, and other commercial fleets. The unique safety requirements of commercial vehicles, given their larger size and diverse operational conditions, drive the adoption of advanced safety technologies. Collapsible steering columns contribute to minimizing the risk of driver injuries in the event of accidents, aligning with the safety priorities of fleet operators. The integration of collapsible steering columns in commercial vehicles reflects an industry-wide commitment to enhancing safety standards across diverse vehicle types, emphasizing the broad applicability of this technology beyond passenger vehicles.

## Regional Insights

North America, the Automotive Collapsible Steering Column Market is characterized by stringent safety regulations and a strong emphasis on occupant protection. The region's well-established automotive industry, particularly in the United States, ensures the widespread adoption of advanced safety features, including collapsible steering columns. The market benefits from the high consumer awareness of safety standards, and automakers continually invest in technologies that align with or exceed regulatory requirements. The collaborative efforts between regulatory bodies and manufacturers contribute to a market environment that prioritizes the integration of innovative safety solutions in both passenger and commercial vehicles.

Europe showcases a similar commitment to safety, with a focus on advanced



technologies and stringent regulatory standards. The European Automotive Collapsible Steering Column Market is driven by consumer preferences for vehicles equipped with cutting-edge safety features. The European New Car Assessment Programme (Euro NCAP) plays a pivotal role in shaping safety standards, encouraging the adoption of collapsible steering columns in vehicles across the continent. Additionally, the push toward sustainability and environmental consciousness in Europe influences the choice of materials and manufacturing processes for these safety components.

The Asia-Pacific region, led by automotive powerhouses such as China, Japan, and South Korea, is a dynamic hub for the Automotive Collapsible Steering Column Market. The region experiences robust growth due to the expanding automotive market, increasing consumer awareness of safety, and government initiatives promoting vehicle safety standards. The diverse vehicle landscape in Asia-Pacific, ranging from compact cars to large commercial vehicles, contributes to the varied applications of collapsible steering columns. Manufacturers in the region are also keenly focused on technological innovations, aligning with the global trends shaping the automotive safety landscape.

The Middle East and Africa exhibit a diverse market for collapsible steering columns. In wealthier Gulf countries, where the automotive industry is thriving, the demand for advanced safety features is on the rise. Collapsible steering columns are integrated into luxury vehicles, reflecting consumer preferences for high-end safety technologies. In contrast, certain regions in Africa may prioritize durability and cost-effectiveness due to challenging terrains. The Automotive Collapsible Steering Column Market in the Middle East and Africa demonstrates the adaptation of safety technologies to meet varying economic conditions and consumer expectations.

**Key Market Players** 

Robert Bosch GmbH

Nexteer Automotive Corporation

Schaeffler AG

Pailton Engineering Limited

JTEKT Corporation

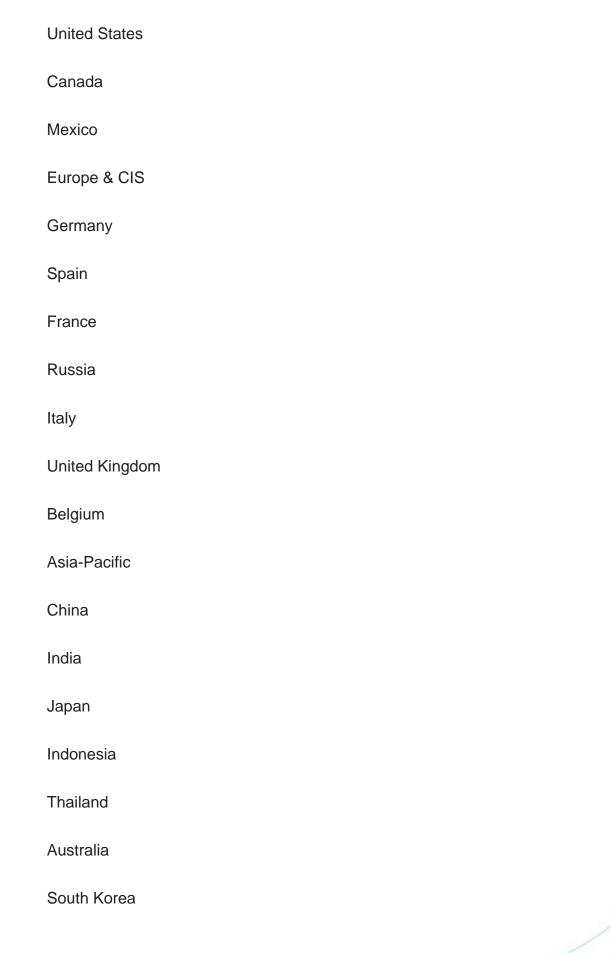
NSK Ltd.



Coram Europe S.r.l. Sweet Manufacturing Inc Report Scope: In this report, the Global Automotive Collapsible Steering Column Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below: Automotive Collapsible Steering Column Market, By Vehicle Type: Passenger Vehicles Commercial Vehicles Automotive Collapsible Steering Column Market, By Drive Type: 4-Wheel Drive Rear Wheel Drive All Wheel Drive Automotive Collapsible Steering Column Market, By Material: Mild Steel Carbon Steel High Strength Forged Steel Others Automotive Collapsible Steering Column Market, By Region:

North America







South America	
Brazil	
Argentina	
Colombia	
Middle East & Africa	
Turkey	
Iran	
Saudi Arabia	
UAE	
Competitive Landscape	
Company Profiles: Detailed analysis of the major companies presents in the Global Automotive Collapsible Steering Column Market.	
Available Customizations:	
Global Automotive Collapsible Steering Column 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:	
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Detailed analysis and profiling of additional market players (up to five).	



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