

# **Automotive Gear Shifter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology Type (Shift-By-Wire, Automatic Shifter), By Component Type (Electronic Control Unit (ECU), CAN Module, Solenoid Actuator), By Vehicle Type (Passenger Cars, Commercial Vehicles), By Region, Competition 2018-2028**

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## **Abstracts**

Global Automotive Gear Shifter market was valued at USD 12.17 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 7.36% through 2028. The Global Automotive Gear Shifter Market is a highly dynamic and rapidly evolving sector that has experienced remarkable growth over the past few years. This growth can be primarily attributed to the continuous advancements in automotive technology, including the development of cutting-edge transmission systems and innovative gear shifting mechanisms. Furthermore, the increasing global vehicle production, coupled with the growing demand for smoother and more efficient driving experiences, has further fueled the expansion of this market. Additionally, the shifting consumer preferences towards advanced transmission systems, such as automatic and semi-automatic gear shifters, have played a pivotal role in driving the market growth. With the automotive industry embracing new trends and technologies, the Global Automotive Gear Shifter Market is poised for continued growth and innovation in the foreseeable future. As automotive technology continues to advance at a rapid pace, gear shifters have emerged as a critical component in ensuring seamless and efficient vehicle operation. With their intricate design and precision engineering, these gear shifters have become indispensable to the overall driving experience. Leading players in the market are tirelessly pushing the boundaries of innovation and investing heavily in extensive research and development efforts. A new generation of gear shifters that not

only boast cutting-edge technology but also cater to the ever-evolving needs and preferences of discerning consumers. By constantly refining their offerings, these key players are setting new benchmarks for excellence in the industry, revolutionizing the way we shift gears and elevating the driving experience to unprecedented heights.

One of the key driving factors behind the rapid growth of the automotive gear shifter market is the increasing adoption of electric and hybrid vehicles. With the world moving towards more sustainable transportation options, there is a growing demand for gear shifters that are specifically designed to be compatible with these eco-friendly vehicles. This emerging trend presents a significant opportunity for market players to develop innovative gear shifters that not only offer efficient performance but also contribute to reducing carbon emissions and promoting environmental sustainability. By focusing on creating gear shifters that prioritize both functionality and eco-friendliness, companies can stay ahead of the curve and cater to the evolving needs of the automotive industry.

However, the market is not without its challenges. Fluctuating raw material prices pose a challenge to manufacturers, as they need to balance cost-effectiveness with quality. Additionally, stringent environmental regulations require gear shifters to meet certain standards, further adding to the complexity of the market.

Despite these challenges, the outlook for the global automotive gear shifter market remains positive. Emerging markets, such as Asia-Pacific, are witnessing significant growth in vehicle production, which is driving the demand for gear shifters. With increasing disposable incomes and changing lifestyles, consumers are also becoming more inclined towards advanced transmission systems, further fueling the market growth.

In conclusion, the global automotive gear shifter market is a highly competitive and dynamic sector, driven by advancements in technology, increasing vehicle production, and shifting consumer preferences. While challenges exist, the market presents ample opportunities for innovation and growth, especially in the context of electric and hybrid vehicles and emerging markets. With continuous advancements and evolving consumer demands, the automotive gear shifter market is expected to flourish in the coming years, shaping the future of the automotive industry.

## Key Market Drivers

### Rising Demand for Automatic Transmission Vehicles

One of the primary drivers fueling the Global Automotive Gear Shifter Market is the increasing demand for automatic transmission vehicles. Automatic transmissions offer a convenient and user-friendly driving experience, eliminating the need for manual gear shifting by the driver. This trend is particularly pronounced in regions with heavy traffic congestion, where automatic transmissions provide a smoother and more comfortable driving experience.

As consumer preferences shift towards automatic transmissions for their ease of use and enhanced driving comfort, automakers are responding by expanding their offerings of automatic transmission-equipped vehicles. The higher adoption of automatic transmissions directly influences the demand for advanced and ergonomic gear shifters designed for automatic gear selection.

The Global Automotive Gear Shifter Market is witnessing a transition from traditional mechanical shifters to electronically controlled ones, allowing for seamless and precise gear changes in automatic transmissions. The increasing production and consumer preference for automatic transmission vehicles contribute significantly to the growth of the automotive gear shifter market.

#### Proliferation of Electric and Hybrid Vehicles

The surge in the production and adoption of electric and hybrid vehicles is a major driver shaping the Global Automotive Gear Shifter Market. Electric vehicles (EVs) and hybrid vehicles often feature single-speed transmissions or multi-speed transmissions with a simplified gear ratio range compared to traditional internal combustion engine vehicles.

In electric vehicles, gear shifters play a crucial role in controlling the transmission modes and facilitating smooth acceleration and deceleration. Hybrid vehicles, with both electric and internal combustion power sources, may have unique transmission requirements, necessitating specialized gear shifters to optimize the use of electric and combustion power.

The transition towards electrification in the automotive industry is driving innovation in gear shifter technologies to meet the specific needs of electric and hybrid drivetrains. Electronic gear shifters with regenerative braking capabilities, intuitive control interfaces, and seamless integration with electric powertrains are becoming key features in the gear shifter market, reflecting the changing dynamics of vehicle propulsion systems.

## Advancements in Transmission Technologies

Advances in transmission technologies are driving the evolution of automotive gear shifters, contributing to enhanced efficiency, performance, and fuel economy. Traditional mechanical linkages are giving way to electronic transmission systems that offer greater precision and control over gear changes. Automated manual transmissions (AMTs), dual-clutch transmissions (DCTs), and continuously variable transmissions (CVTs) are among the advanced transmission technologies influencing the design and functionality of gear shifters.

For example, DCTs, which use two separate clutches for odd and even gears, require sophisticated gear shifters capable of executing rapid and smooth gear changes. The integration of electronic control units (ECUs) and sensors in modern transmissions allows for adaptive and predictive shifting strategies, optimizing the vehicle's overall performance.

Automakers are also exploring innovative transmission technologies, such as electronic continuously variable transmissions (e-CVTs), which combine the efficiency of CVTs with electronic control for a seamless and efficient driving experience. These advancements necessitate corresponding innovations in gear shifter designs to accommodate the unique characteristics of each transmission type, driving the demand for advanced gear shifter solutions in the market.

## Focus on Interior Aesthetics and Ergonomics

The interior aesthetics and ergonomics of vehicles are increasingly influencing consumer purchasing decisions, leading to a growing emphasis on stylish and user-friendly gear shifter designs. Automakers are incorporating innovative and aesthetically pleasing gear shifter solutions to enhance the overall interior ambiance of vehicles and provide a more enjoyable driving experience.

The shift towards sleek and compact center consoles has prompted the development of space-efficient gear shifter designs. Electronic gear shifters, rotary shift knobs, and joystick-style shifters are gaining popularity for their modern and minimalist designs, contributing to a cleaner and more sophisticated interior appearance.

Ergonomics also play a crucial role, with gear shifters designed to provide a comfortable and intuitive interface for drivers. Features such as haptic feedback, illuminated indicators, and customizable controls contribute to an ergonomic and user-centric gear

shifting experience. As automakers prioritize interior aesthetics and user comfort, the Global Automotive Gear Shifter Market responds with a diverse range of design options and ergonomic enhancements.

### Integration of Smart and Connected Features

The integration of smart and connected features in vehicles is a significant driver shaping the Global Automotive Gear Shifter Market. Modern gear shifters are evolving beyond their traditional mechanical function to incorporate electronic controls and connectivity features. The advent of electronic gear shift-by-wire systems allows for seamless integration with vehicle networks, enabling advanced functionalities.

Smart gear shifters may include features such as adaptive shift logic, where the transmission adapts to the driver's behavior and driving conditions for optimized performance. Additionally, gear shifters are becoming part of larger infotainment and connectivity systems, allowing drivers to customize their driving experience through interactive touchscreens or voice commands.

Connected vehicles leverage data from various sensors, including those in the transmission and gear shifter, to provide real-time information to drivers and automakers. This connectivity facilitates remote diagnostics, predictive maintenance, and over-the-air updates for the gear shifter software and control algorithms.

The integration of smart features aligns with the broader trend of connected and autonomous vehicles, where seamless communication between vehicle components enhances overall functionality and user experience. As vehicles become increasingly connected, gear shifters are evolving into intelligent interfaces that contribute to the overall intelligence and adaptability of the vehicle's control systems.

### Key Market Challenges

#### Technological Complexity and Integration

One of the significant challenges confronting the Global Automotive Gear Shifter Market is the increasing technological complexity associated with the integration of advanced transmission systems. As vehicles transition from traditional mechanical transmissions to electronic and automated systems, gear shifters need to accommodate a wide range of transmission technologies, including automatic transmissions, dual-clutch transmissions (DCTs), and continuously variable transmissions (CVTs).

Electronic transmission systems, such as shift-by-wire and drive-by-wire, rely on electronic control units (ECUs) and sensors for precise gear changes. The challenge lies in designing gear shifters that seamlessly integrate with these electronic systems while providing an intuitive and reliable interface for drivers. Ensuring compatibility across various transmission types and vehicle models adds an extra layer of complexity for gear shifter manufacturers.

Moreover, the trend towards electrification and autonomous driving introduces new considerations for gear shifter design. Electric vehicles (EVs) with single-speed transmissions and autonomous vehicles with no driver input challenge traditional gear shifter norms. Manufacturers must navigate these technological intricacies to develop gear shifters that align with the diverse transmission technologies and vehicle architectures present in the evolving automotive landscape.

### Market Saturation and Price Pressures

The Global Automotive Gear Shifter Market faces challenges related to market saturation and intense competition, leading to price pressures. The market has witnessed a proliferation of gear shifter suppliers, resulting in a crowded and competitive landscape. Established manufacturers and new entrants alike must contend with the saturation of products and services, making it challenging to differentiate offerings based solely on features.

Price pressures emerge as a consequence of heightened competition, with automakers seeking cost-effective solutions without compromising quality and performance. The challenge for gear shifter manufacturers is to balance cost-effectiveness with the need for advanced technologies, ergonomic designs, and durable materials. Achieving this balance is crucial for maintaining profitability and securing contracts with automotive OEMs.

The market saturation also prompts gear shifter manufacturers to explore new avenues for differentiation, such as focusing on innovative designs, smart features, or sustainability aspects. Overcoming price pressures requires strategic positioning and a keen understanding of market trends to deliver value to both automakers and end consumers.

### Regulatory Standards and Safety Compliance



Compliance with stringent regulatory standards and safety requirements poses a significant challenge for the Global Automotive Gear Shifter Market. Gear shifters are integral components of the vehicle's control system, and their design and functionality must align with various safety and performance standards established by regulatory authorities worldwide.

Safety considerations include preventing unintended gear shifts, ensuring proper engagement of gears, and minimizing the risk of malfunctions that could lead to accidents. Regulatory standards also address aspects such as ergonomics, accessibility, and ease of use, particularly concerning drivers with disabilities.

The challenge is heightened by the global nature of the automotive industry, as gear shifter manufacturers must navigate a diverse set of regulations and standards across different regions and markets. Harmonizing safety and regulatory compliance requires continuous monitoring of evolving standards and proactive adaptation to ensure that gear shifters meet or exceed the prescribed requirements.

The recall of certain vehicles due to gear shifter-related safety concerns in the past has underscored the importance of rigorous testing and adherence to safety standards. Overcoming this challenge involves collaboration between gear shifter manufacturers, automakers, and regulatory bodies to establish consistent and globally recognized safety benchmarks.

### Changing Consumer Preferences and User Experience

The Global Automotive Gear Shifter Market faces challenges arising from the evolving preferences of consumers and the demand for enhanced user experiences. Traditional mechanical shifters are being replaced by electronic and sleeker designs, responding to a shift in consumer preferences towards modern, intuitive, and aesthetically pleasing interiors.

Consumers now expect gear shifters to contribute to the overall user experience by offering not just functionality but also a sense of sophistication and innovation. This shift necessitates gear shifter manufacturers to invest in research and development to stay ahead of changing design trends, ensuring that gear shifters align with the evolving expectations of vehicle owners.

Additionally, the rise of electric and autonomous vehicles introduces a new dimension to user preferences. Electric vehicles often feature minimalist interiors, and the absence of

a traditional gearbox allows for unconventional gear shifter designs. In autonomous vehicles, where driver input is minimized, the role and design of gear shifters may need to be reimagined to cater to the preferences of passengers.

Overcoming this challenge involves a deep understanding of consumer behavior, market trends, and the integration of innovative design elements that contribute to a positive and memorable user experience. Gear shifter manufacturers need to strike a balance between functionality and aesthetics to meet the varied expectations of a diverse consumer base.

### Transition to Electric and Autonomous Vehicles

The ongoing transition to electric and autonomous vehicles poses a considerable challenge for the Global Automotive Gear Shifter Market. In electric vehicles, the absence of traditional internal combustion engines leads to simplified drivetrains with fewer gears, and in some cases, single-speed transmissions. This shift challenges the conventional role of gear shifters and may necessitate new design approaches to cater to electric vehicle architectures.

Autonomous vehicles, with their emphasis on reducing driver involvement, raise questions about the relevance and design of gear shifters. In fully autonomous vehicles, the need for a traditional gear shifter diminishes, as the vehicle assumes control of acceleration, braking, and gear changes. This shift challenges gear shifter manufacturers to reimagine their products for a future where manual gear changes become obsolete.

The challenge extends to maintaining relevance in a market where the proportion of electric and autonomous vehicles is expected to increase significantly. Gear shifter manufacturers must proactively adapt their product offerings to align with the changing landscape of vehicle propulsion systems and user interaction paradigms.

### Key Market Trends

#### Shift Toward Electronic and Drive-by-Wire Systems

A prominent trend in the Global Automotive Gear Shifter Market is the widespread adoption of electronic and drive-by-wire systems, marking a departure from traditional mechanical linkages. Electronic gear shifters, also known as shift-by-wire systems, rely on sensors and electronic control units (ECUs) to transmit signals from the gear shifter



to the transmission, eliminating the need for direct mechanical connections.

This shift brings several advantages, including enhanced precision in gear changes, reduced complexity in the drivetrain, and the possibility of incorporating smart features. Electronic gear shifters provide a smoother and more responsive driving experience, allowing for seamless transitions between gears. Additionally, the absence of physical linkages enables more flexibility in the placement and design of gear shifters within the vehicle's interior.

Drive-by-wire systems take this trend further, extending electronic control beyond the gear shifter to other vehicle functions like throttle and brake. This integration contributes to the development of advanced vehicle control systems, paving the way for increased automation and connectivity. As automotive manufacturers embrace electronic and drive-by-wire technologies, the Global Automotive Gear Shifter Market responds with innovative solutions that align with the industry's shift toward more sophisticated and electronically controlled transmission systems.

### Integration of Smart and Connected Features

The integration of smart and connected features represents a transformative trend in the Global Automotive Gear Shifter Market. Gear shifters are evolving from traditional mechanical components to intelligent interfaces embedded with connectivity features. Automakers are increasingly incorporating electronic gear shifters that are part of broader infotainment and control systems within the vehicle.

Smart gear shifters may include features such as adaptive shift logic, where the transmission adapts to the driver's behavior and driving conditions for optimized performance. Connectivity allows gear shifters to communicate with other vehicle components and systems, contributing to a holistic and interconnected driving experience. For instance, gear shifters can be linked to navigation systems, adjusting gear changes based on upcoming terrain or traffic conditions.

The trend extends to connected vehicles, where gear shifters play a role in data collection and communication with the vehicle's network. Gear shifters equipped with sensors can provide real-time information on driving patterns, contributing to predictive maintenance and performance optimization. As vehicles become more connected, gear shifters are evolving into intelligent components that enhance the overall functionality and user experience of the vehicle.

## Ergonomic and Aesthetic Design Innovations

The Global Automotive Gear Shifter Market is witnessing a trend toward ergonomic and aesthetic design innovations that prioritize user comfort and contribute to the overall interior ambiance of vehicles. Traditional gear shifters are being reimagined to align with modern design trends, and manufacturers are focusing on creating sleek, compact, and visually appealing solutions.

Electronic gear shifters offer design flexibility, enabling the development of space-efficient and aesthetically pleasing solutions. For example, rotary shift knobs, joystick-style shifters, and electronic push-button shifters are gaining popularity for their modern and minimalist designs. These designs not only enhance the visual appeal of the vehicle's interior but also contribute to a clutter-free and user-friendly cockpit.

Ergonomics play a crucial role in the design of gear shifters, with an emphasis on providing a comfortable and intuitive interface for drivers. Features such as haptic feedback, illuminated indicators, and customizable controls contribute to an ergonomic and user-centric gear shifting experience. As consumers place greater importance on interior aesthetics and user comfort, the Global Automotive Gear Shifter Market responds with a diverse range of design options and ergonomic enhancements.

## Adoption of Advanced Materials for Lightweighting

The automotive industry's ongoing pursuit of lightweighting for improved fuel efficiency and performance is influencing the materials used in the manufacturing of gear shifters. Traditional gear shifters, often made from metals such as steel or aluminum, are being replaced with advanced materials that offer a combination of strength, durability, and reduced weight.

High-strength composites, carbon fiber-reinforced polymers, and other advanced materials are finding applications in the construction of gear shifters, contributing to overall weight reduction in vehicles. The adoption of lightweight materials aligns with the industry's efforts to enhance fuel efficiency and reduce the environmental impact of vehicles.

Lightweight gear shifters not only contribute to fuel savings but also play a role in improving the overall agility and responsiveness of the vehicle. The incorporation of advanced materials in gear shifter design requires careful consideration of structural integrity, durability, and manufacturing processes. Gear shifter manufacturers are

actively exploring material innovations to stay at the forefront of lightweighting trends and meet the evolving demands of the automotive industry.

### Customization and Personalization Options

Another notable trend in the Global Automotive Gear Shifter Market is the growing emphasis on customization and personalization options for gear shifters. As consumers seek unique and personalized driving experiences, automakers are offering a range of customization choices for gear shifters, allowing drivers to tailor the appearance and functionality to their preferences.

Customizable elements may include the shape and design of the gear shifter knob, the type of material used, illumination options, and even the inclusion of brand-specific logos or symbols. Electronic gear shifters with touch-sensitive controls provide additional opportunities for customization, allowing drivers to configure the layout and functionality of the shifter interface.

This trend is particularly pronounced in premium and luxury vehicle segments, where personalization is a key differentiator. Gear shifter manufacturers are responding by offering a variety of options and finishes, enabling automakers to enhance the exclusivity and individuality of their vehicles. The ability to customize gear shifters aligns with the broader trend of personalization in the automotive industry, where consumers seek products that reflect their unique preferences and lifestyles.

### Segmental Insights

#### Vehicle Type Analysis

The global Automotive Gear Shifter Market is witnessing significant growth due to the increasing demand for automobiles around the world. This market is characterized by different types of gear shifters including manual and automatic, each having their unique market share and growth rate. Specific vehicle types such as passenger cars, commercial vehicles, and electric vehicles also play a crucial role in the dynamics of this market. It's essential to analyze these segments individually to understand their impact on the overall growth trajectory of the Automotive Gear Shifter Market.

#### Component Type Analysis

The global Automotive Gear Shifter Market can be segmented into several component

types. These include mechanical gear shifters, electronic gear shifters, and hybrid models. Mechanical gear shifters, the traditional choice, are gradually giving way to electronic gear shifters, which offer improved functionality, ease-of-use, and design flexibility. However, it's not just a binary choice between mechanical and electronic. The emergence of hybrid models that blend mechanical and electronic components represents a significant trend in the market. This diversified portfolio of component types is indicative of an industry responding to the evolving needs and preferences of consumers.

## Regional Insights

The global Automotive Gear Shifter Market demonstrates significant regional diversity, reflecting the unique economic, cultural, and technological factors of each area. For instance, the Asia-Pacific region, spearheaded by China and India, is witnessing a substantial growth due to rapid industrialization, increasing population, and the rising demand for personal vehicles. North America, with its advanced automotive industry and high consumer purchasing power, maintains a significant share in this market. Meanwhile, Europe exhibits robust growth, driven by the presence of prominent automobile manufacturers and stringent regulations encouraging the adoption of advanced and safe automotive systems. Lastly, emerging markets in Latin America and the Middle East & Africa show promising potential, supported by improving economic conditions and growing infrastructure development.

## Recent Developments

In April 2021, Aisin Seiki and Aisin AW Co., Ltd. integrated their operations with the aim of strengthening their competitiveness in the CASE (connected, autonomous, shared, electric) domain. The agreement included Toyota, and although Aisin Seiki was the surviving company after the merger, the new company name was changed to Aisin Corporation.

In February 2021, American Axle Manufacturing (AAM) announced that it secured the axle and driveshaft program for Ram's heavy-duty pick-up trucks, for the 2500 and 3500 through 2030.

## Key Market Players

ZF Friedrichshafen AG

Ficosa Internacional SA

WABCO

DURA AUTOMOTIVE SYSTEMS

TOKAIRIKA, CO, LTD,

Ficosa Internacional SA

K?STER Unternehmensgruppe

Lumax Industries

Chongqing Kuayue (Group) Co., Ltd.

SILATECH S.r.l.

#### Report Scope:

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

Automotive Gear Shifter Market, By Technology Type:

Shift-By-Wire

Automatic Shifter

Automotive Gear Shifter Market, By Vehicle Type:

Passenger Cars

Commercial Vehicles

## Automotive Gear Shifter Market, By Component Type:

Electronic Control Unit (ECU)

CAN Module

Solenoid Actuator

## Automotive Gear Shifter Market, By Region:

Asia-Pacific

China

India

Japan

Indonesia

Thailand

South Korea

Australia

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom



Belgium

North America

United States

Canada

Mexico

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Turkey

Saudi Arabia

UAE

## Competitive Landscape

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

## Available Customizations:

Global Automotive Gear Shifter Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following

*Automotive Gear Shifter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By...*

customization options are available for the report:

### Company Information

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

## Contents

### **1. INTRODUCTION**

- 1.1. Product Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

### **4. IMPACT OF COVID-19 ON GLOBAL AUTOMOTIVE GEAR SHIFTER MARKET**

### **5. GLOBAL AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Technology Type Market Share Analysis (Shift-By-Wire, Automatic Shifter)
  - 5.2.2. By Vehicle Type Market Share Analysis (Passenger Cars, Commercial Vehicles)
  - 5.2.3. By Component Type Market Share Analysis (Electronic Control Unit (ECU), CAN Module, Solenoid Actuator)

- 5.2.4. By Regional Market Share Analysis
  - 5.2.4.1. Asia-Pacific Market Share Analysis
  - 5.2.4.2. Europe & CIS Market Share Analysis
  - 5.2.4.3. North America Market Share Analysis
  - 5.2.4.4. South America Market Share Analysis
  - 5.2.4.5. Middle East & Africa Market Share Analysis
- 5.2.5. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2022)
- 5.3. Global Automotive Gear Shifter Market Mapping & Opportunity Assessment
  - 5.3.1. By Technology Type Market Mapping & Opportunity Assessment
  - 5.3.2. By Vehicle Type Market Mapping & Opportunity Assessment
  - 5.3.3. By Component Type Market Mapping & Opportunity Assessment
  - 5.3.4. By Regional Market Mapping & Opportunity Assessment

## **6. ASIA-PACIFIC AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Technology Type Market Share Analysis
  - 6.2.2. By Vehicle Type Market Share Analysis
  - 6.2.3. By Component Type Market Share Analysis
  - 6.2.4. By Country Market Share Analysis
    - 6.2.4.1. China Market Share Analysis
    - 6.2.4.2. India Market Share Analysis
    - 6.2.4.3. Japan Market Share Analysis
    - 6.2.4.4. Indonesia Market Share Analysis
    - 6.2.4.5. Thailand Market Share Analysis
    - 6.2.4.6. South Korea Market Share Analysis
    - 6.2.4.7. Australia Market Share Analysis
    - 6.2.4.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
  - 6.3.1. China Automotive Gear Shifter Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Technology Type Market Share Analysis
      - 6.3.1.2.2. By Vehicle Type Market Share Analysis
      - 6.3.1.2.3. By Component Type Market Share Analysis

- 6.3.2. India Automotive Gear Shifter Market Outlook
  - 6.3.2.1. Market Size & Forecast
    - 6.3.2.1.1. By Value
  - 6.3.2.2. Market Share & Forecast
    - 6.3.2.2.1. By Technology Type Market Share Analysis
    - 6.3.2.2.2. By Vehicle Type Market Share Analysis
    - 6.3.2.2.3. By Component Type Market Share Analysis
- 6.3.3. Japan Automotive Gear Shifter Market Outlook
  - 6.3.3.1. Market Size & Forecast
    - 6.3.3.1.1. By Value
  - 6.3.3.2. Market Share & Forecast
    - 6.3.3.2.1. By Technology Type Market Share Analysis
    - 6.3.3.2.2. By Vehicle Type Market Share Analysis
    - 6.3.3.2.3. By Component Type Market Share Analysis
- 6.3.4. Indonesia Automotive Gear Shifter Market Outlook
  - 6.3.4.1. Market Size & Forecast
    - 6.3.4.1.1. By Value
  - 6.3.4.2. Market Share & Forecast
    - 6.3.4.2.1. By Technology Type Market Share Analysis
    - 6.3.4.2.2. By Vehicle Type Market Share Analysis
    - 6.3.4.2.3. By Component Type Market Share Analysis
- 6.3.5. Thailand Automotive Gear Shifter Market Outlook
  - 6.3.5.1. Market Size & Forecast
    - 6.3.5.1.1. By Value
  - 6.3.5.2. Market Share & Forecast
    - 6.3.5.2.1. By Technology Type Market Share Analysis
    - 6.3.5.2.2. By Vehicle Type Market Share Analysis
    - 6.3.5.2.3. By Component Type Market Share Analysis
- 6.3.6. South Korea Automotive Gear Shifter Market Outlook
  - 6.3.6.1. Market Size & Forecast
    - 6.3.6.1.1. By Value
  - 6.3.6.2. Market Share & Forecast
    - 6.3.6.2.1. By Technology Type Market Share Analysis
    - 6.3.6.2.2. By Vehicle Type Market Share Analysis
    - 6.3.6.2.3. By Component Type Market Share Analysis
- 6.3.7. Australia Automotive Gear Shifter Market Outlook
  - 6.3.7.1. Market Size & Forecast
    - 6.3.7.1.1. By Value
  - 6.3.7.2. Market Share & Forecast

- 6.3.7.2.1. By Technology Type Market Share Analysis
- 6.3.7.2.2. By Vehicle Type Market Share Analysis
- 6.3.7.2.3. By Component Type Market Share Analysis

## **7. EUROPE & CIS AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Technology Type Market Share Analysis

#### 7.2.2. By Vehicle Type Market Share Analysis

#### 7.2.3. By Component Type Market Share Analysis

#### 7.2.4. By Country Market Share Analysis

##### 7.2.4.1. Germany Market Share Analysis

##### 7.2.4.2. Spain Market Share Analysis

##### 7.2.4.3. France Market Share Analysis

##### 7.2.4.4. Russia Market Share Analysis

##### 7.2.4.5. Italy Market Share Analysis

##### 7.2.4.6. United Kingdom Market Share Analysis

##### 7.2.4.7. Belgium Market Share Analysis

##### 7.2.4.8. Rest of Europe & CIS Market Share Analysis

### 7.3. Europe & CIS: Country Analysis

#### 7.3.1. Germany Automotive Gear Shifter Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By Technology Type Market Share Analysis

###### 7.3.1.2.2. By Vehicle Type Market Share Analysis

###### 7.3.1.2.3. By Component Type Market Share Analysis

#### 7.3.2. Spain Automotive Gear Shifter Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By Technology Type Market Share Analysis

###### 7.3.2.2.2. By Vehicle Type Market Share Analysis

###### 7.3.2.2.3. By Component Type Market Share Analysis

#### 7.3.3. France Automotive Gear Shifter Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value



- 7.3.3.2. Market Share & Forecast
  - 7.3.3.2.1. By Technology Type Market Share Analysis
  - 7.3.3.2.2. By Vehicle Type Market Share Analysis
  - 7.3.3.2.3. By Component Type Market Share Analysis
- 7.3.4. Russia Automotive Gear Shifter Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Technology Type Market Share Analysis
    - 7.3.4.2.2. By Vehicle Type Market Share Analysis
    - 7.3.4.2.3. By Component Type Market Share Analysis
- 7.3.5. Italy Automotive Gear Shifter Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Technology Type Market Share Analysis
    - 7.3.5.2.2. By Vehicle Type Market Share Analysis
    - 7.3.5.2.3. By Component Type Market Share Analysis
- 7.3.6. United Kingdom Automotive Gear Shifter Market Outlook
  - 7.3.6.1. Market Size & Forecast
    - 7.3.6.1.1. By Value
  - 7.3.6.2. Market Share & Forecast
    - 7.3.6.2.1. By Technology Type Market Share Analysis
    - 7.3.6.2.2. By Vehicle Type Market Share Analysis
    - 7.3.6.2.3. By Component Type Market Share Analysis
- 7.3.7. Belgium Automotive Gear Shifter Market Outlook
  - 7.3.7.1. Market Size & Forecast
    - 7.3.7.1.1. By Value
  - 7.3.7.2. Market Share & Forecast
    - 7.3.7.2.1. By Technology Type Market Share Analysis
    - 7.3.7.2.2. By Vehicle Type Market Share Analysis
    - 7.3.7.2.3. By Component Type Market Share Analysis

## **8. NORTH AMERICA AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Technology Type Market Share Analysis

- 8.2.2. By Vehicle Type Market Share Analysis
- 8.2.3. By Component Type Market Share Analysis
- 8.2.4. By Country Market Share Analysis
  - 8.2.4.1. United States Market Share Analysis
  - 8.2.4.2. Mexico Market Share Analysis
  - 8.2.4.3. Canada Market Share Analysis
- 8.3. North America: Country Analysis
  - 8.3.1. United States Automotive Gear Shifter Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Technology Type Market Share Analysis
      - 8.3.1.2.2. By Vehicle Type Market Share Analysis
      - 8.3.1.2.3. By Component Type Market Share Analysis
  - 8.3.2. Mexico Automotive Gear Shifter Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Technology Type Market Share Analysis
      - 8.3.2.2.2. By Vehicle Type Market Share Analysis
      - 8.3.2.2.3. By Component Type Market Share Analysis
  - 8.3.3. Canada Automotive Gear Shifter Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Technology Type Market Share Analysis
      - 8.3.3.2.2. By Vehicle Type Market Share Analysis
      - 8.3.3.2.3. By Component Type Market Share Analysis

## **9. SOUTH AMERICA AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Technology Type Market Share Analysis
  - 9.2.2. By Vehicle Type Market Share Analysis
  - 9.2.3. By Component Type Market Share Analysis
  - 9.2.4. By Country Market Share Analysis
    - 9.2.4.1. Brazil Market Share Analysis

- 9.2.4.2. Argentina Market Share Analysis
- 9.2.4.3. Colombia Market Share Analysis
- 9.2.4.4. Rest of South America Market Share Analysis
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Automotive Gear Shifter Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Technology Type Market Share Analysis
      - 9.3.1.2.2. By Vehicle Type Market Share Analysis
      - 9.3.1.2.3. By Component Type Market Share Analysis
  - 9.3.2. Colombia Automotive Gear Shifter Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Technology Type Market Share Analysis
      - 9.3.2.2.2. By Vehicle Type Market Share Analysis
      - 9.3.2.2.3. By Component Type Market Share Analysis
  - 9.3.3. Argentina Automotive Gear Shifter Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Technology Type Market Share Analysis
      - 9.3.3.2.2. By Vehicle Type Market Share Analysis
      - 9.3.3.2.3. By Component Type Market Share Analysis

## **10. MIDDLE EAST & AFRICA AUTOMOTIVE GEAR SHIFTER MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Technology Type Market Share Analysis
  - 10.2.2. By Vehicle Type Market Share Analysis
  - 10.2.3. By Component Type Market Share Analysis
  - 10.2.4. By Country Market Share Analysis
    - 10.2.4.1. South Africa Market Share Analysis
    - 10.2.4.2. Turkey Market Share Analysis
    - 10.2.4.3. Saudi Arabia Market Share Analysis
    - 10.2.4.4. UAE Market Share Analysis

- 10.2.4.5. Rest of Middle East & Africa Market Share Analysis
- 10.3. Middle East & Africa: Country Analysis
  - 10.3.1. South Africa Automotive Gear Shifter Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Technology Type Market Share Analysis
      - 10.3.1.2.2. By Vehicle Type Market Share Analysis
      - 10.3.1.2.3. By Component Type Market Share Analysis
  - 10.3.2. Turkey Automotive Gear Shifter Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Technology Type Market Share Analysis
      - 10.3.2.2.2. By Vehicle Type Market Share Analysis
      - 10.3.2.2.3. By Component Type Market Share Analysis
  - 10.3.3. Saudi Arabia Automotive Gear Shifter Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Technology Type Market Share Analysis
      - 10.3.3.2.2. By Vehicle Type Market Share Analysis
      - 10.3.3.2.3. By Component Type Market Share Analysis
  - 10.3.4. UAE Automotive Gear Shifter Market Outlook
    - 10.3.4.1. Market Size & Forecast
      - 10.3.4.1.1. By Value
    - 10.3.4.2. Market Share & Forecast
      - 10.3.4.2.1. By Technology Type Market Share Analysis
      - 10.3.4.2.2. By Vehicle Type Market Share Analysis
      - 10.3.4.2.3. By Component Type Market Share Analysis

## **11. SWOT ANALYSIS**

- 11.1. Strength
- 11.2. Weakness
- 11.3. Opportunities
- 11.4. Threats

## **12. MARKET DYNAMICS**

12.1. Market Drivers

12.2. Market Challenges

## **13. MARKET TRENDS AND DEVELOPMENTS**

## **14. COMPETITIVE LANDSCAPE**

14.1. Company Profiles (Up to 10 Major Companies)

14.1.1. SILATECH S.r.l.

14.1.1.1. Company Details

14.1.1.2. Key Product Offered

14.1.1.3. Financials (As Per Availability)

14.1.1.4. Recent Developments

14.1.1.5. Key Management Personnel

14.1.2. ZF Friedrichshafen AG

14.1.2.1. Company Details

14.1.2.2. Key Product Offered

14.1.2.3. Financials (As Per Availability)

14.1.2.4. Recent Developments

14.1.2.5. Key Management Personnel

14.1.3. Ficosa Internacional SA

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. WABCO

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. DURA AUTOMOTIVE SYSTEMS

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. TOKAIRIKA, CO, LTD,
  - 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. Ficosa Internacional SA
  - 14.1.7.1. Company Details
  - 14.1.7.2. Key Product Offered
  - 14.1.7.3. Financials (As Per Availability)
  - 14.1.7.4. Recent Developments
  - 14.1.7.5. Key Management Personnel
- 14.1.8. K?STER Unternehmensgruppe
  - 14.1.8.1. Company Details
  - 14.1.8.2. Key Product Offered
  - 14.1.8.3. Financials (As Per Availability)
  - 14.1.8.4. Recent Developments
  - 14.1.8.5. Key Management Personnel
- 14.1.9. Lumax Industries
  - 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. Chongqing Kuayue (Group) Co., Ltd.
  - 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 Technology Type
  - 15.1.3. Target Vehicle Type



## 16. ABOUT US & DISCLAIMER

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