

# **Automotive Shock Absorber Market Forecasts to 2032 – Global Analysis By Type (Mono-tube, Twin-tube, Gas-charged, Adjustable and Other Types), Vehicle Type, Sales Channel, Vehicle Suspension Type, Application and By Geography**

<https://marketpublishers.com/r/ACB3240D2E55EN.html>

Date: September 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: ACB3240D2E55EN

## **Abstracts**

According to Statistics MRC, the Global Automotive Shock Absorber Market is accounted for \$17.01 billion in 2025 and is expected to reach \$24.58 billion by 2032 growing at a CAGR of 5.4% during the forecast period. An automotive shock absorber is a critical component of a vehicle's suspension system designed to control unwanted spring motion and improve ride quality. It functions by converting kinetic energy from the suspension movement into thermal energy, which is then dissipated, thereby reducing oscillations and vibrations caused by road irregularities. Shock absorbers enhance vehicle stability, handling, and braking performance by maintaining tire contact with the road surface. They are typically hydraulic or gas-charged and work in conjunction with springs to absorb shocks from bumps, potholes, and rough terrain.

Market Dynamics:

Driver:

Rising vehicle production and sales

Manufacturers are integrating advanced suspension systems to meet consumer expectations for comfort and safety. Growth in regions like Southeast Asia is contributing to volume acceleration. Adaptive damping technologies are being adopted to improve ride stability. Intelligent suspension integration is enhancing product relevance. These factors are reinforcing the importance of shock absorbers in modern

vehicle design.

#### Restraint:

##### High cost of advanced technologies

Precision engineering and premium materials increase production expenses. OEMs face trade-offs between performance and affordability in mass-market models. Aftermarket upgrades are often cost-prohibitive for consumers. Smaller players struggle to compete without scale advantages. These constraints are slowing market penetration of advanced damping solutions.

#### Opportunity:

##### Consumer demand for enhanced comfort

Terrain-adaptive and vibration-reducing systems are gaining traction. Luxury and performance vehicles are expanding the use of intelligent suspension. Material and design innovations are supporting modular and scalable solutions. OEMs are using comfort features to differentiate products and build brand loyalty. These trends are driving diversification and growth in the shock absorber market.

#### Threat:

##### Raw material price volatility

Global supply chain disruptions are increasing procurement risks. Manufacturers are revising sourcing and inventory strategies to manage exposure. Smaller firms may lack the capacity to hedge against price swings. Input cost fluctuations are affecting pricing and competitiveness. These challenges are complicating production planning and profitability.

#### Covid-19 Impact:

The Covid-19 pandemic significantly disrupted the automotive shock absorber market. Global lockdowns and manufacturing halts led to a sharp decline in vehicle production and sales, affecting demand for replacement parts. Supply chain interruptions caused delays in raw material availability and logistics, impacting production schedules. Additionally, economic uncertainty reduced consumer spending on new vehicles and

aftermarket components. However, the gradual recovery of the automotive sector and increased focus on vehicle safety and comfort are expected to support market stabilization and future growth.

The twin-tube segment is expected to be the largest during the forecast period

The twin-tube segment is expected to account for the largest market share during the forecast period due to their affordability and reliability. These systems perform well across varied driving conditions and are widely used in passenger vehicles.

Compatibility with standard suspension setups supports OEM integration. Aftermarket demand remains strong due to ease of replacement. Manufacturers are improving fluid dynamics and corrosion resistance in twin-tube designs. This segment will continue to lead due to its performance-cost balance.

The off-road & performance segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the off-road & performance segment is predicted to witness the highest growth rate owing to rising demand for rugged and dynamic driving experiences. Specialized shock absorbers are being adopted for enhanced terrain handling and responsiveness. Integration with electronic suspension systems is improving ride quality. OEMs are investing in premium damping technologies for sport and utility models. Modular designs and material innovations are enabling customization. This segment is set for rapid growth as adventure and performance vehicles gain traction.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share by rapid vehicle production and a growing middle-class population. Demand is rising for passenger cars and commercial vehicles, with twin-tube and gas-charged shock absorbers being particularly favored. Market expansion is supported by rising urbanization, infrastructure development, and increasing road networks. Emerging economies lead the adoption of cost-effective and durable suspension solutions to accommodate diverse driving conditions. Growth is further fueled by local manufacturing hubs, competitive pricing, and government incentives for automotive sector expansion. Rising exports and the surge in electric vehicle manufacturing are encouraging innovation in shock absorber technology tailored to regional conditions.

### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR due to the high adoption of advanced vehicles and stringent safety standards. Premium passenger cars and light commercial vehicles dominate demand, with a focus on performance-enhancing technologies such as mono-tube and adjustable shock absorbers. Growth is supported by rising consumer preference for ride comfort, vehicle longevity, and aftermarket upgrades. Regulatory emphasis on vehicle safety and emissions indirectly boosts the market as manufacturers incorporate superior suspension systems. Strong presence of established OEMs and aftermarket suppliers fosters innovation. Additionally, growing interest in electric and hybrid vehicles is shaping product development and adoption trends.

### Key players in the market

Some of the key players in Automotive Shock Absorber Market include ZF Friedrichshafen AG, KYB Corporation, Tenneco Inc., Hitachi Astemo, Ltd., thyssenkrupp AG, Mando Corporation, Showa Corporation, Gabriel India Ltd., Meritor Inc., Magneti Marelli S.p.A., Arnott Inc., Duro Shox Pvt. Ltd., ITT Inc., Zhejiang Sensen Auto Parts Co., Ltd. and Bilstein.

### Key Developments:

In March 2025, KYB Corporation completed the acquisition of Chita Kogyo Company, a Japanese industrial parts manufacturer. The move strengthens KYB's vertical integration and expands its production capabilities for precision components used in advanced shock absorber systems

In April 2024, ZF Foxconn Chassis Modules GmbH was officially launched as a joint venture between ZF and Foxconn to develop and manufacture passenger car chassis systems. The venture includes advanced damping technologies, integrating ZF's shock absorber systems into modular platforms for global OEMs.

### Types Covered:

Mono-tube

Twin-tube

Gas-charged

Adjustable

Other Types

Vehicle Types Covered:

Passenger Cars

Light Commercial Vehicles (LCVs)

Heavy Commercial Vehicles (HCVs)

Two-Wheelers

Three-Wheelers

Sale Channels Covered:

Original Equipment Manufacturer (OEM)

Aftermarket

Vehicle Suspension Types Covered:

MacPherson Strut

Double Wishbone

Multi-link

Leaf Spring

Other Vehicle Suspension Types

### Applications Covered:

Comfort & Ride Quality

Handling & Safety

Off-road & Performance

Load Carrying

Electric Vehicle (EV) Optimization

Fleet & Commercial Operations

Other Applications

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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