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# Commercial Vehicle Suspension Systems Market - Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Vehicle Type (LCV, M&HCV), By Component Type (Coil Spring, Leaf Spring, Air Spring, Shock Absorber, and Other Components), By Type (Passive Suspension, Semi-active Suspension, and Active Suspension), By Region & Competition, 2021-2031F

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## Abstracts

The Global Commercial Vehicle Suspension Systems Market is projected to expand from USD 84.13 Billion in 2025 to USD 123.03 Billion by 2031, registering a CAGR of 6.54%. This market involves the engineering and production of mechanisms that link a vehicle's chassis to its wheels, essential for absorbing shocks and ensuring stability in trucks, buses, and trailers. The primary factors driving this growth are the burgeoning logistics industry and the rise of e-commerce, which demand dependable freight fleets capable of transporting heavy loads. According to the European Automobile Manufacturers? Association (ACEA), new van registrations in the European Union rose by 8.3% in 2024, totaling approximately 1.6 million units. This strong increase in commercial vehicle sales highlights a direct and growing need for durable suspension components.

However, the market confronts a significant hurdle regarding volatile raw material prices, specifically for steel and aluminum. These price fluctuations force manufacturers to increase component costs, which can discourage fleet operators from upgrading their fleets or adopting advanced suspension technologies. Consequently, this financial strain on both production and purchasing establishes a substantial barrier that could restrict

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broader market expansion, particularly in regions that are highly sensitive to price changes.

**Market Driver**

The rise of electric and autonomous commercial vehicles is fundamentally transforming the market, requiring manufacturers to design specialized suspension architectures that can handle unique operational stresses. Electric trucks, which carry heavy battery packs, need robust yet lightweight suspension systems?often employing air suspension technology?to counterbalance the increased curb weight while shielding sensitive electronic control units from road vibrations. This structural shift is highlighted by the rapid adoption of zero-emission heavy-duty fleets, necessitating advanced damping solutions that support heavier loads without sacrificing range efficiency. As noted by the International Energy Agency (IEA) in its 'Global EV Outlook 2024' from April 2024, global electric truck sales surged by 35% in 2023, reaching approximately 54,000 units.

concurrently, the rising production and sales of commercial vehicles, spurred by recovering global supply chains and export demand, serve as a major volume multiplier for suspension components. As original equipment manufacturers (OEMs) increase output to fulfill order backlogs and meet logistics sector needs, the procurement of chassis systems, including leaf springs and shock absorbers, has intensified. According to the Society of Motor Manufacturers and Traders (SMMT) 'Commercial Vehicle Manufacturing' update in October 2024, UK commercial vehicle plants produced 93,447 units in the first nine months of the year, an 8.5% increase over 2023. This manufacturing momentum is mirrored by major industry players solidifying their market positions through high delivery volumes; for instance, Daimler Truck reported global unit sales of 526,053 for the 2023 fiscal year in 2024, reflecting sustained demand that directly feeds the suspension systems supply chain.

**Market Challenge**

The volatility of raw material prices, especially for steel and aluminum, presents a significant restraint on the Global Commercial Vehicle Suspension Systems Market. These metals are essential inputs for manufacturing high-strength suspension components like leaf springs, air spring pistons, and control arms. When commodity costs fluctuate unpredictably, manufacturers are forced to raise the prices of their finished systems to maintain necessary profit margins. This increase in component pricing elevates the total acquisition cost of heavy-duty vehicles and replacement parts, creating a difficult financial environment for buyers.

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As a result, this upward cost pressure dissuades fleet operators from investing in new vehicles or upgrading existing fleets. Faced with higher capital requirements, many logistics companies opt to extend the service life of their current trucks rather than committing to fleet renewals. This hesitation significantly reduces the demand for original equipment suspension systems in the heavy commercial sector. This trend toward market contraction is evident in recent industry figures; according to the European Automobile Manufacturers? Association (ACEA), new EU truck registrations declined by 6.3% in 2024, totaling 327,896 units. This decrease in heavy vehicle volumes underscores how cost-driven market friction directly hampers broader sector expansion.

**Market Trends**

The incorporation of IoT-enabled sensors for predictive maintenance is fundamentally changing the market by embedding intelligence directly into suspension architecture. Manufacturers are increasingly installing sensors to monitor bearing temperature, vibration, and load distribution, enabling fleet operators to detect component failures early and minimize unplanned downtime. This trend is driving the standardization of connectivity features across major equipment lines, transitioning telematics from an optional upgrade to a core requirement for ensuring asset availability. For example, Schmitz Cargobull reported in its 'Annual General Meeting' update in September 2025 that the company produced 42,353 vehicle units during the 2024/25 financial year, maintaining its market leadership by prioritizing digitalization and the delivery of smart, connected transport solutions.

Simultaneously, the expansion of air suspension applications into vocational truck segments is reshaping the heavy-duty landscape as operators seek greater versatility in off-highway environments. While traditionally dominated by mechanical steel suspensions, vocational sectors such as military transport and construction are adopting advanced air and specialized suspension systems to improve ride quality for sensitive cargo and reduce chassis fatigue on rough terrain. This shift is evidenced by the increasing procurement of complex suspension bogies designed for specialized hauling requirements. As indicated by SAF-Holland in an August 2025 press release titled 'SAF-HOLLAND wins major order for swivel axle bogies', the company secured a significant contract in the high single-digit million US dollar range to supply specialized swivel axle systems for military transport applications, highlighting the growing penetration of engineered suspension solutions in demanding vocational markets.

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## Key Market Players

Continental AG

Mando Corporation

ZF Friedrichshafen AG

Thyssenkrupp AG

Tenneco Inc.

Marelli Corporation

Hyundai Mobis Co. Ltd

Hitachi Astemo Ltd

BWI Group

Sogefi SpA.

## Report Scope

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

Commercial Vehicle Suspension Systems Market, By Vehicle Type

LCV

M&HCV

Commercial Vehicle Suspension Systems Market, By Component Type

Coil Spring

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Leaf Spring

Air Spring

Shock Absorber

Other Components

Commercial Vehicle Suspension Systems Market, By Type

Passive Suspension

Semi-active Suspension

Active Suspension

Commercial Vehicle Suspension Systems Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

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China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

**Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Commercial Vehicle Suspension Systems Market.

**Available Customizations:**

Global Commercial Vehicle Suspension Systems 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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## Company Information

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

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# Contents


## 1. PRODUCT OVERVIEW

1.1. Market Definition
1.2. Scope of the Market
  1.2.1. Markets Covered
  1.2.2. Years Considered for Study
  1.2.3. Key Market Segmentations

## 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. Overview of the Market
3.2. Overview of Key Market Segmentations
3.3. Overview of Key Market Players
3.4. Overview of Key Regions/Countries
3.5. Overview of Market Drivers, Challenges, Trends

## 4. VOICE OF CUSTOMER

## 5. GLOBAL COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

5.1. Market Size & Forecast
  5.1.1. By Value
5.2. Market Share & Forecast
  5.2.1. By Vehicle Type (LCV, M&HCV)
  5.2.2. By Component Type (Coil Spring, Leaf Spring, Air Spring, Shock Absorber, Other Components)
  5.2.3. By Type (Passive Suspension, Semi-active Suspension, Active Suspension)

+357 96 030922
info@marketpublishers.com

5.2.4. By Region
5.2.5. By Company (2025)
5.3. Market Map

## 6. NORTH AMERICA COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

6.1. Market Size & Forecast
6.1.1. By Value
6.2. Market Share & Forecast
6.2.1. By Vehicle Type
6.2.2. By Component Type
6.2.3. By Type
6.2.4. By Country
6.3. North America: Country Analysis
6.3.1. United States Commercial Vehicle Suspension Systems 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 Vehicle Type
6.3.1.2.2. By Component Type
6.3.1.2.3. By Type
6.3.2. Canada Commercial Vehicle Suspension Systems 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 Vehicle Type
6.3.2.2.2. By Component Type
6.3.2.2.3. By Type
6.3.3. Mexico Commercial Vehicle Suspension Systems 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 Vehicle Type
6.3.3.2.2. By Component Type
6.3.3.2.3. By Type

## 7. EUROPE COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

+357 96 030922
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7.1. Market Size & Forecast
7.1.1. By Value
7.2. Market Share & Forecast
7.2.1. By Vehicle Type
7.2.2. By Component Type
7.2.3. By Type
7.2.4. By Country
7.3. Europe: Country Analysis
7.3.1. Germany Commercial Vehicle Suspension Systems 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 Vehicle Type
7.3.1.2.2. By Component Type
7.3.1.2.3. By Type
7.3.2. France Commercial Vehicle Suspension Systems 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 Vehicle Type
7.3.2.2.2. By Component Type
7.3.2.2.3. By Type
7.3.3. United Kingdom Commercial Vehicle Suspension Systems 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 Vehicle Type
7.3.3.2.2. By Component Type
7.3.3.2.3. By Type
7.3.4. Italy Commercial Vehicle Suspension Systems 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 Vehicle Type
7.3.4.2.2. By Component Type
7.3.4.2.3. By Type
7.3.5. Spain Commercial Vehicle Suspension Systems Market Outlook
7.3.5.1. Market Size & Forecast
7.3.5.1.1. By Value

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7.3.5.2. Market Share & Forecast
7.3.5.2.1. By Vehicle Type
7.3.5.2.2. By Component Type
7.3.5.2.3. By Type

## 8. ASIA PACIFIC COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Vehicle Type
8.2.2. By Component Type
8.2.3. By Type
8.2.4. By Country
8.3. Asia Pacific: Country Analysis
8.3.1. China Commercial Vehicle Suspension Systems 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 Vehicle Type
8.3.1.2.2. By Component Type
8.3.1.2.3. By Type
8.3.2. India Commercial Vehicle Suspension Systems 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 Vehicle Type
8.3.2.2.2. By Component Type
8.3.2.2.3. By Type
8.3.3. Japan Commercial Vehicle Suspension Systems 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 Vehicle Type
8.3.3.2.2. By Component Type
8.3.3.2.3. By Type
8.3.4. South Korea Commercial Vehicle Suspension Systems Market Outlook
8.3.4.1. Market Size & Forecast

+357 96 030922
info@marketpublishers.com

8.3.4.1.1. By Value
8.3.4.2. Market Share & Forecast
8.3.4.2.1. By Vehicle Type
8.3.4.2.2. By Component Type
8.3.4.2.3. By Type
8.3.5. Australia Commercial Vehicle Suspension Systems Market Outlook
8.3.5.1. Market Size & Forecast
8.3.5.1.1. By Value
8.3.5.2. Market Share & Forecast
8.3.5.2.1. By Vehicle Type
8.3.5.2.2. By Component Type
8.3.5.2.3. By Type

## 9. MIDDLE EAST & AFRICA COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Vehicle Type
9.2.2. By Component Type
9.2.3. By Type
9.2.4. By Country
9.3. Middle East & Africa: Country Analysis
9.3.1. Saudi Arabia Commercial Vehicle Suspension Systems 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 Vehicle Type
9.3.1.2.2. By Component Type
9.3.1.2.3. By Type
9.3.2. UAE Commercial Vehicle Suspension Systems 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 Vehicle Type
9.3.2.2.2. By Component Type
9.3.2.2.3. By Type
9.3.3. South Africa Commercial Vehicle Suspension Systems Market Outlook

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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 Vehicle Type
9.3.3.2.2. By Component Type
9.3.3.2.3. By Type

## 10. SOUTH AMERICA COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Vehicle Type
10.2.2. By Component Type
10.2.3. By Type
10.2.4. By Country
10.3. South America: Country Analysis
10.3.1. Brazil Commercial Vehicle Suspension Systems 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 Vehicle Type
10.3.1.2.2. By Component Type
10.3.1.2.3. By Type
10.3.2. Colombia Commercial Vehicle Suspension Systems 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 Vehicle Type
10.3.2.2.2. By Component Type
10.3.2.2.3. By Type
10.3.3. Argentina Commercial Vehicle Suspension Systems 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 Vehicle Type
10.3.3.2.2. By Component Type
10.3.3.2.3. By Type

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info@marketpublishers.com

## 11. MARKET DYNAMICS

11.1. Drivers
11.2. Challenges

## 12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)
12.2. Product Launches (If Any)
12.3. Recent Developments

## 13. GLOBAL COMMERCIAL VEHICLE SUSPENSION SYSTEMS MARKET: SWOT ANALYSIS

## 14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry
14.2. Potential of New Entrants
14.3. Power of Suppliers
14.4. Power of Customers
14.5. Threat of Substitute Products

## 15. COMPETITIVE LANDSCAPE

15.1. Continental AG
  15.1.1. Business Overview
  15.1.2. Products & Services
  15.1.3. Recent Developments
  15.1.4. Key Personnel
  15.1.5. SWOT Analysis
15.2. Mando Corporation
15.3. ZF Friedrichshafen AG
15.4. Thyssenkrupp AG
15.5. Tenneco Inc.
15.6. Marelli Corporation
15.7. Hyundai Mobis Co. Ltd
15.8. Hitachi Astemo Ltd
15.9. BWI Group

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15.10. Sogefi SpA.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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