

Two-Wheeler Suspension System Market – Global Industry Size, Share, Trends, Opportunity, And Forecast, Segmented By Suspension (Front Suspension, Rear Suspension), By Product (Telescopic Forks, Mono Shock, Twin Shock Absorbers, Spring And Damper Units), By Vehicle (Motorcycles, Scooters, Electric Two-Wheelers), By Sales Channel (OEM, Aftermarket), By Region & Competition, 2020-2030F

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Abstracts

The Global Two-Wheeler Suspension System Market was valued at USD 1.8 billion in 2024 and is expected to reach USD 2.6 billion by 2030 with a CAGR of 6.6% during the forecast period. The global two-wheeler suspension system market is undergoing considerable transformation due to evolving vehicle design philosophies and the shift toward enhanced ride quality. The growing popularity of electric two-wheelers is pushing manufacturers to reimagine suspension configurations that are not only lightweight but also responsive. As urban congestion increases, two-wheelers continue to be a preferred mode of transport, driving demand for smoother suspension systems that absorb shocks and improve rider comfort. For instance, According to SIAM, India's two-wheeler market saw a 16.23% growth, reaching 18,437,528 units from January to November 2024, driven by stronger domestic demand supported by improved consumer sentiment, a healthy monsoon, and festive season momentum. As manufacturers innovate with suspension designs such as inverted forks and mono-shocks, the market is seeing a clear trend toward more premium features being offered even in budget models.

The need to enhance safety and vehicle handling is pushing R&D in suspension technology. Manufacturers are incorporating semi-active and electronically adjustable suspension systems that adapt to different riding conditions. These systems enable two-wheelers to maintain better traction and offer more predictable performance across various terrains. Meanwhile, aftermarket demand for suspension upgrades is rising as end users look to personalize or enhance their vehicle performance. While conventional suspension systems dominate mass-produced vehicles, the transition to more advanced, adaptive systems is already evident in mid and high-end segments.

Market Drivers

Growth in Motorcycle Sales Worldwide

Increasing sales of motorcycles across urban and rural regions is a key factor driving demand for suspension systems. Motorcycles are increasingly used for daily commuting, logistics, and personal mobility, especially in countries where traffic congestion and fuel prices are major concerns. The increased vehicle load and prolonged usage durations require durable and effective suspension systems. As two-wheeler sales climb globally, particularly in emerging economies, the need for reliable front and rear suspension units becomes more critical. This growth in demand is boosting OEM production and aftermarket replacement of suspension components.

Electrification of Two-Wheelers

The rapid expansion of the electric two-wheeler segment is influencing the evolution of suspension design and functionality. Electric vehicles demand lighter components to maximize battery efficiency, prompting innovation in materials used in suspension systems. Suspension components must be compact and flexible enough to fit into newly designed electric frames while maintaining structural integrity. As electric scooters and motorcycles grow in popularity, demand rises for suspension systems that can adapt to the weight distribution and torque characteristics unique to electric drivetrains.

Key Market Challenges

High Cost of Advanced Suspension Systems

Modern electronically controlled suspension systems are expensive to design, develop, and integrate, which limits their widespread adoption in low-cost and entry-level two-wheelers. These systems often require additional sensors, electronic control units, and

complex calibration processes. The high price point poses a challenge in price-sensitive markets, where consumers may prioritize cost over enhanced ride quality or technology. The prices of key raw materials such as steel, aluminum, and specialized polymers used in suspension manufacturing fluctuate frequently. These fluctuations impact production costs and profit margins, particularly for manufacturers operating with thin margins. Long-term supply contracts and diversification strategies are sometimes used to mitigate this, but price volatility remains a challenge in maintaining consistent output quality and cost efficiency.

Key Market Trends

Integration of Smart Suspension Systems

Suspension systems are increasingly incorporating smart technologies such as sensors and electronic control units that adapt in real time. These systems analyze road conditions, speed, and rider input to adjust damping rates and improve ride quality dynamically. Smart suspension enhances both performance and safety, making it attractive for a wide range of users including commuters and sport riders.

Key Market Players

Endurance Technologies Ltd.

Gabriel India Limited

Hitachi Astemo, Ltd.

KYB Corporation

Marzocchi Motor

Ohlins Racing AB

Showa Corporation

Tenneco Inc.

WP Suspension GmbH

ZF Friedrichshafen AG

Report Scope:

In this report, the Global Two-Wheeler Suspension System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Two-Wheeler Suspension System Market, By Vehicle:

Motorcycles

Scooters

Electric two-wheelers

Two-Wheeler Suspension System Market, By Product:

Telescopic forks

Mono shock

Twin shock absorbers

Spring and damper units

Two-Wheeler Suspension System Market, By Suspension:

Front suspension

Rear suspension

Two-Wheeler Suspension System Market, By Sales Channel:

Aftermarket

OEM (Original Equipment Manufacturer)

Two-Wheeler Suspension System Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

France

U.K.

Spain

Italy

Asia-Pacific

China

Japan

India

South Korea

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

South America

Brazil

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Two-Wheeler Suspension System Market.

Available Customizations:

Global Two-Wheeler Suspension System Market report with the given market data, TechSci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

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

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