

Gas Spring Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (Lift Gas Spring, Lockable Gas Spring, Swivel Chair Gas Spring, Gas Traction Spring, Gas Spring Damper, Others), By Application (Aerospace, Automotive, Medical, Industrial, Furniture, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Gas Spring Market is projected to expand from USD 6.46 Billion in 2025 to USD 8.96 Billion by 2031, registering a CAGR of 5.61%. Composed of a pressure tube and piston rod, these hydropneumatic energy storage components deliver essential force assistance, damping, and locking capabilities within mechanical assemblies. This growth trajectory is primarily underpinned by the accelerating integration of automation in automotive production for hood and tailgate systems, alongside increasing requirements for adjustable medical equipment and ergonomic office furniture.

Data from the National Fluid Power Association (NFPA) places the valuation of the global fluid power market, which includes gas spring technologies, at roughly \$51.9 billion in 2024. Although this figure reflects strong industrial demand, the sector encounters significant hurdles related to the volatility of raw material costs, specifically for steel and sealing elements. These fluctuations pose a risk to market progression by potentially compressing manufacturer profit margins.

Market Driver

A major catalyst for the Global Gas Spring Market is the escalation in global automotive manufacturing combined with the demand for high-end vehicle features. As original

equipment manufacturers focus on user comfort and premium ergonomics, gas springs are increasingly utilized in heavy tailgates, hoods, and intricate seat adjustment systems to provide smooth, assisted movement. The rising popularity of SUVs and the imperative for lightweighting in electric vehicles further heighten the need for these hydropneumatic components to handle heavier lids while minimizing overall vehicle mass. This demand is reinforced by production statistics; the European Automobile Manufacturers Association (ACEA) reported in its January 2025 'Economic and Market Report' that global car production reached 75.5 million units in 2024, ensuring a steady procurement channel for motion control parts across both traditional and new energy vehicle lines.

The second pivotal driver is the growing adoption of industrial automation and machinery safety standards, which extends the application of gas springs well beyond the automotive industry. In contemporary smart manufacturing environments, these components are vital for counterbalancing heavy safety guards, maintenance hatches, and robotic arms, thereby improving equipment accessibility and operator safety in line with stringent regulations. The industrial strength backing this application is evidenced by broader output data; the United Nations Industrial Development Organization (UNIDO) noted in its December 2024 'World Manufacturing Production Report' that global manufacturing output increased by 0.4% in the third quarter of 2024, signaling robust industrial activity. Highlighting the economic significance of this sector, Stabilus SE revealed in its December 2024 'Annual Report 2024' that the company achieved ?1.3 billion in revenue for the fiscal year 2024, demonstrating the substantial value generated by these varied motion control applications.

Market Challenge

A major impediment to the growth of the gas spring market is the instability of raw material prices. Manufacturers depend heavily on high-quality steel and specialized polymers for sealing parts to guarantee the pressure retention and structural soundness of their offerings. When the prices of these critical inputs fluctuate unpredictably, production costs surge, compelling companies to either accept reduced profit margins or pass the costs onto end-users. This price volatility causes tension in negotiations with original equipment manufacturers in cost-conscious industries like automotive and furniture manufacturing, often resulting in procurement delays and diminished order volumes.

Such economic uncertainty significantly affects inventory management and supply chain planning. The difficulty in accurately forecasting material costs complicates the ability of

manufacturers to secure long-term agreements with fixed pricing. As reported by the World Steel Association in October 2024, the forecast for global steel demand was adjusted to reflect a 0.9% decrease, underscoring the persistent instability and regional variations that fuel erratic pricing within the industrial supply chain. These market fluctuations force gas spring producers to adopt a cautious approach, restricting their ability to invest in capacity expansion and directly impeding the overall growth of the market.

Market Trends

The market is being fundamentally transformed by the integration of electromechanical systems for hybrid motion control, marking a shift from passive components to active, digitalized solutions. Manufacturers are increasingly merging conventional hydropneumatic gas springs with intelligent control units and electric drives to facilitate remote operation and precise positioning in sophisticated machinery. This transition is especially prominent in the industrial automation field, where the need for sensor-integrated, synchronized lifting systems is replacing basic mechanical support. The economic weight of this technological shift is clear; Stabilus SE reported in its December 2025 'Annual Report 2025' that its Industrial Automation business unit realized an 84.1% revenue increase in fiscal year 2025, emphasizing the rapid expansion of these advanced electromechanical applications relative to legacy products.

Concurrently, the adoption of recyclable and eco-friendly manufacturing materials has emerged as a crucial requirement, propelled by strict supply chain decarbonization goals set by major industrial and automotive OEMs. Gas spring manufacturers are sourcing low-carbon steel and reformulating sealing polymers to comply with the Scope 3 emission reduction mandates of their key clients. This drive for sustainability is escalating as vehicle manufacturers successfully reduce their direct operational footprints, subsequently turning their focus to component suppliers. According to the European Automobile Manufacturers' Association (ACEA) in its August 2025 'The Automobile Industry Pocket Guide 2025/2026', CO2 emissions per vehicle produced have decreased by 53% since 2005, a benchmark that compels the upstream supply chain to utilize green materials to sustain procurement contracts.

Key Market Players

Stabilus SE

%li%SUSPA GmbH

%li%Bansbach easylift GmbH

%li%Aditech Produktions GmbH

%li%AirLoc Ltd

%li%Alrose Products Limited

%li%Gemini Gas Springs Inc

%li%Industrial Gas Springs, Inc

%li%Vapsint Srl

%li%Insu Teknik Makine Sanayi Ticaret A.S

Report Scope

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

%li%Gas Spring Market, By Type

%li%%li%Lift Gas Spring

%li%%li%Lockable Gas Spring

%li%%li%Swivel Chair Gas Spring

%li%%li%Gas Traction Spring

%li%%li%Gas Spring Damper

%li%%li%Others

%li%Gas Spring Market, By Application

- Aerospace

- Automotive

- Medical

- Industrial

- Furniture

- Others

- Gas Spring Market, By Region

- North America

- United States

- Canada

- Mexico

- Europe

- France

- United Kingdom

- Italy

- Germany

- Spain

- Asia Pacific

- China

- India

%li%%li%%li%%li%Japan

%li%%li%%li%%li%Australia

%li%%li%%li%%li%South Korea

%li%%li%%li%%li%South America

%li%%li%%li%%li%Brazil

%li%%li%%li%%li%Argentina

%li%%li%%li%%li%Colombia

%li%%li%%li%%li%Middle East & Africa

%li%%li%%li%%li%South Africa

%li%%li%%li%%li%Saudi Arabia

%li%%li%%li%%li%UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Gas Spring Market.

Available Customizations:

Global Gas Spring 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:

Company Information

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

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