Constant Force Spring Market Set For Rapid Expansion With 7.5% CAGR Through 2030

The Business Research Company's Constant Force Spring Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035



LONDON, GREATER LONDON, UNITED KINGDOM, September 8, 2026 /EINPresswire.com/ -- The constant force spring market has been experiencing significant growth recently, driven by technological advances and increasing applications in various industries. As demand rises across sectors such as automotive, aerospace, and medical devices, the market is set for continued expansion. Below is an overview of the market size, key growth factors, and regional trends shaping its future trajectory.

Constant Force Spring Market Size and Projected Growth
The market for constant force springs has shown strong performance in recent years, with its size anticipated to increase from $1.02 billion in 2025 to $1.1 billion in 2026, representing a compound annual growth rate (CAGR) of 7.9%. This growth during the historical period has been driven by rising industrial automation, expanding automotive component needs, growth in consumer electronics production, increased aerospace manufacturing, and broader adoption of medical technology.

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Looking ahead, the constant force spring market is expected to maintain robust momentum, reaching $1.47 billion by 2030 with a CAGR of 7.5%. Key drivers for this forecast include rising requirements for robotic motion systems, growth in electric vehicle manufacturing, expanded use of lightweight engineering materials, a surge in precision automation equipment deployment, and increasing investments in smart infrastructure. Notable market trends involve the miniaturization of spring systems for compact device applications, demand for springs with high-cycle durability, use of corrosion-resistant materials, tailored force profile designs, and

integration of lightweight, high-performance components.

Understanding Constant Force Springs and Their Applications
A constant force spring consists of a pre-stressed, tightly coiled flat metal strip designed to deliver a nearly uniform retracting or extending force across its entire operating range. This is achieved by continuously transferring stored mechanical energy as the strip coils and uncoils during movement. These springs find widespread use in mechanical and electromechanical systems that require controlled linear motion, tension regulation, counterbalancing, space-efficient force delivery, and consistent load management under repetitive conditions.

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How Expansion of Electric Vehicle Infrastructure Impacts Market Growth
One of the primary factors boosting the constant force spring market is the expanding electric vehicle (EV) infrastructure. This expansion encompasses the increasing installation of EV charging stations, cables, cable reels, connectors, and related equipment aimed at improving charging convenience and safety. As EV networks grow, operators and equipment manufacturers demand better cable handling solutions for enhanced usability and maintenance. Constant force springs play a vital role here by providing compact cable retraction, stable counterbalance, controlled cable movement, and low-maintenance cable management in charging stations. For example, according to the International Council on Clean Transportation (ICCT), by the end of 2024, the United States had installed around 204,000 public and workplace chargers for light-duty vehicles, with charging infrastructure growing nearly 25% annually in 2024. This rapid expansion underpins increased demand for constant force springs.

Increasing Automation in Industrial Manufacturing Creating Market Opportunities
The rising trend of automation across industrial manufacturing is another crucial driver for constant force spring market growth. Industrial automation involves using control systems, robotics, software, and automated machinery to streamline production with minimal human involvement, enhancing efficiency, consistency, and throughput. As manufacturers seek higher productivity and reduced downtime while maintaining product quality and controlling labor expenses, the adoption of automated systems is surging. Constant force springs are essential in these settings because automated machines and robotic devices require consistent, reliable force for precision movement, tension control, and component positioning. Their ability to provide uniform force throughout the extension range ensures accurate and repeatable performance. For instance, the A3 Association for Advancing Automation reported that companies across North America ordered 36,766 robots worth $2.25 billion in 2025, reflecting a 6.6% increase in units and a 10.1% rise in order value compared to 2024. This growing automation trend is therefore propelling the constant force spring market forward.

Regional Insights Highlight Asia-Pacific’s Rapid Growth Potential

In 2025, North America held the largest share of the constant force spring market. However, Asia-Pacific is poised to become the fastest-growing region throughout the forecast period. The market analysis encompasses various regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market developments and opportunities.

Our 2026 market reports now offer broader strategic coverage through market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, along with updated graphics and tables.

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