

Aerospace And Defense Springs Market Size, Share & Trends Analysis Report By Type (Flat Spiral/Power Springs, Coil Springs, Torsion, Torque Coil, Clutch Springs, Others), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Market Size & Trends

The global aerospace & defense springs market size was valued at USD 356.6 million in 2023 and is projected to register a CAGR of 6.7% from 2024 to 2030. The market is poised for significant growth over the forecast period, driven by the continued development of lightweight, high-performance aircraft while guaranteeing adequate compliance with stringent safety regulations. The growth of the market can be attributed to the vital role specialized springs can play in vibration dampening, landing gear functionality, and flight control systems. Specialized springs are emerging as a niche component of lightweight, high-performance aircraft that can help airlines save costs and improve maneuverability for military applications.

The burgeoning use of springs in aerospace and defense applications necessitates a diverse range of spring types. This demand is driving the development of corrosion-resistant, lightweight springs, and springs with extended fatigue life, all tailored to meet the specific requirements of various end-use industries and verticals. To address these evolving needs, spring manufacturers are increasingly leveraging advanced technologies to design high-precision springs.

Aircraft designs are incorporating lighter materials and demanding functionalities,

creating a boom for specialized springs. Manufacturers are exploring advanced materials like high-performance alloys and composites to develop lighter springs without sacrificing performance. These lighter springs translate to significant fuel savings for airlines and enhanced maneuverability for military aircraft. Similarly, the defense sector's focus on lightweight systems like next-generation fighter jets with advanced propulsion is driving innovation in spring materials and design.

The demand for lightweight, high-performance springs is soaring in both aerospace and defense industries. For instance, the U.S. Air Force is working on the development of a new-generation fighter aircraft as part of the Next Generation Air Dominance program. This new aircraft would be powered by adaptive engine technology, which has been under development under the Next Generation Adaptive Propulsion (NGAP) program. The U.S. Air Force proposed USD 595 million to the program for NGAP in the President's Budget.

Global Aerospace & Defense Springs Market Report Segmentation

The report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global aerospace & defense springs market report based on type and region.

Type Outlook (Revenue, USD Million, 2017 - 2030)

Flat Spiral/Power Springs

Coil Springs

Torsion, Torque Coil, Clutch Springs

Others

Regional Outlook (Revenue, USD Million, 2017 - 2030)

North America

U.S.

Canada

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

Latin America

Brazil

Mexico

Middle East & Africa

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