

Global Aerospace & Defense Springs Market to Reach USD 0.63 Billion by 2032

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Abstracts

The global aerospace & defense springs market was valued at USD 0.35 billion in 2023 and is projected to grow at a CAGR of 6.70% from 2024 to 2032. Springs play an indispensable role in the aerospace and defense industries, providing essential functions such as shock absorption, weight distribution, and energy storage in a wide range of applications, from aircraft landing gear to missile systems. With continuous advancements in lightweight materials, high-performance alloys, and additive manufacturing, the market is experiencing a shift toward more efficient, durable, and high-tensile strength spring components that can withstand extreme conditions. The increasing adoption of composite and titanium-based springs, coupled with the rise in military spending and commercial aircraft production, further fuels market expansion.

The market is being driven by several key factors, including the surging demand for next-generation military aircraft, advancements in space exploration, and the growing focus on fuel-efficient aviation components. Furthermore, with the rise in unmanned aerial vehicles (UAVs) and autonomous defense systems, the requirement for precision-engineered springs has intensified. However, challenges such as stringent industry regulations, high costs of advanced materials, and supply chain disruptions can pose potential obstacles to market growth. Despite these challenges, manufacturers are investing heavily in research and development (R&D) to enhance fatigue resistance, corrosion protection, and heat tolerance in aerospace-grade springs, ensuring prolonged operational reliability.

Regionally, North America remains the dominant player, accounting for a substantial market share due to strong defense budgets, a high concentration of aerospace manufacturers, and continuous innovation in aircraft components. The United States, home to leading aerospace companies and defense contractors, continues to

spearhead market growth with investments in fighter jet modernization programs, commercial space travel, and next-generation aircraft development. Europe is another key market, driven by strategic defense initiatives and increasing air travel demand, particularly in nations such as Germany, France, and the United Kingdom. Meanwhile, the Asia-Pacific (APAC) region is expected to witness the fastest growth rate, fueled by rising military expenditures in China and India, increasing domestic aircraft production, and rapid expansion of low-cost carriers (LCCs).

As competition intensifies, major industry players are focusing on product innovation, strategic collaborations, and advanced material integration to gain a competitive edge. The incorporation of artificial intelligence (AI) and predictive maintenance technologies is further transforming how springs are designed and utilized in aerospace and defense applications. Companies that invest in 3D printing for rapid prototyping and weight reduction are expected to drive future advancements in the industry, solidifying their position in the evolving aerospace ecosystem.

Major Market Players Included in This Report

Lesjöfors AB

Mubea Group

Barnes Group Inc.

NHK Spring Co., Ltd.

MW Industries, Inc.

Mitsubishi Steel Mfg. Co., Ltd.

DANLY GmbH

Springco Metal Coating

Gutekunst Federn

Mecon Engineering

HyTech Spring and Machine Corp.

ACX Spring

BellowsTech, LLC

Associated Spring Raymond

John Evans' Sons, Inc.

The Detailed Segments and Sub-Segments of the Market Are Explained Below

By Type:

Flat Spiral/Power Springs

Coil Springs

Torsion Springs

Torque Coil Springs

Clutch Springs

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of the Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market estimates and forecasts for 10 years (2022-2032).

Annualized revenue trends and regional-level analysis for each segment.

Comprehensive geographical analysis, including country-level insights across major regions.

Competitive landscape assessment, covering key market players and emerging disruptors.

Strategic recommendations for businesses to enhance market positioning and maximize growth potential.

Supply and demand analysis, evaluating factors influencing pricing, adoption, and technological advancements.

Detailed assessment of the evolving role of AI, additive manufacturing, and predictive maintenance in aerospace springs.

Contents

CHAPTER 1.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET EXECUTIVE SUMMARY

- 1.1.?Global Aerospace & Defense Springs Market Size & Forecast (2022-2032)
- 1.2.?Regional Summary
- 1.3.?Segmental Summary
 - 1.3.1.?{By Type}
- 1.4.?Key Trends
- 1.5.?Recession Impact
- 1.6.?Analyst Recommendation & Conclusion

CHAPTER 2.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1.?Research Objective
- 2.2.?Market Definition
- 2.3.?Research Assumptions
 - 2.3.1.?Inclusion & Exclusion
 - 2.3.2.?Limitations
 - 2.3.3.?Supply Side Analysis
 - 2.3.3.1.?Availability
 - 2.3.3.2.?Infrastructure
 - 2.3.3.3.?Regulatory Environment
 - 2.3.3.4.?Market Competition
 - 2.3.3.5.?Economic Viability (Consumer's Perspective)
 - 2.3.4.?Demand Side Analysis
 - 2.3.4.1.?Regulatory Frameworks
 - 2.3.4.2.?Technological Advancements
 - 2.3.4.3.?Environmental Considerations
 - 2.3.4.4.?Consumer Awareness & Acceptance
- 2.4.?Estimation Methodology
- 2.5.?Years Considered for the Study
- 2.6.?Currency Conversion Rates

CHAPTER 3.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET DYNAMICS

- 3.1.?Market Drivers

- 3.1.1.?Surging Demand for Next-Generation Military Aircraft
- 3.1.2.?Advancements in Space Exploration
- 3.1.3.?Growing Focus on Fuel-Efficient Aviation Components
- 3.2.?Market Challenges
 - 3.2.1.?Stringent Industry Regulations
 - 3.2.2.?High Costs of Advanced Materials
 - 3.2.3.?Supply Chain Disruptions
- 3.3.?Market Opportunities
 - 3.3.1.?Enhancing Fatigue Resistance, Corrosion Protection, and Heat Tolerance
 - 3.3.2.?3D Printing for Rapid Prototyping and Weight Reduction
 - 3.3.3.?AI-Powered Predictive Maintenance

CHAPTER 4.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET INDUSTRY ANALYSIS

- 4.1.?Porter's 5 Force Model
 - 4.1.1.?Bargaining Power of Suppliers
 - 4.1.2.?Bargaining Power of Buyers
 - 4.1.3.?Threat of New Entrants
 - 4.1.4.?Threat of Substitutes
 - 4.1.5.?Competitive Rivalry
 - 4.1.6.?Futuristic Approach to Porter's 5 Force Model
 - 4.1.7.?Porter's 5 Force Impact Analysis
- 4.2.?PESTEL Analysis
 - 4.2.1.?Political
 - 4.2.2.?Economical
 - 4.2.3.?Social
 - 4.2.4.?Technological
 - 4.2.5.?Environmental
 - 4.2.6.?Legal
- 4.3.?Top investment opportunity
- 4.4.?Top winning strategies
- 4.5.?Disruptive Trends
- 4.6.?Industry Expert Perspective
- 4.7.?Analyst Recommendation & Conclusion

CHAPTER 5.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET SIZE & FORECASTS BY TYPE 2022-2032

5.1.?Segment Dashboard

5.2.?Global Aerospace & Defense Springs Market: {Type} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

5.2.1.?Flat Spiral/Power Springs

5.2.2.?Coil Springs

5.2.3.?Torsion Springs

5.2.4.?Torque Coil Springs

5.2.5.?Clutch Springs

5.2.6.?Others

CHAPTER 6.??GLOBAL AEROSPACE & DEFENSE SPRINGS MARKET SIZE & FORECASTS BY REGION 2022-2032

6.1.?North America Aerospace & Defense Springs Market

6.1.1.?U.S. Aerospace & Defense Springs Market

6.1.2.?Canada Aerospace & Defense Springs Market

6.2.?Europe Aerospace & Defense Springs Market

6.2.1.?UK Aerospace & Defense Springs Market

6.2.2.?Germany Aerospace & Defense Springs Market

6.2.3.?France Aerospace & Defense Springs Market

6.2.4.?Spain Aerospace & Defense Springs Market

6.2.5.?Italy Aerospace & Defense Springs Market

6.2.6.?Rest of Europe Aerospace & Defense Springs Market

6.3.?Asia-Pacific Aerospace & Defense Springs Market

6.3.1.?China Aerospace & Defense Springs Market

6.3.2.?India Aerospace & Defense Springs Market

6.3.3.?Japan Aerospace & Defense Springs Market

6.3.4.?Australia Aerospace & Defense Springs Market

6.3.5.?South Korea Aerospace & Defense Springs Market

6.3.6.?Rest of Asia Pacific Aerospace & Defense Springs Market

6.4.?Latin America Aerospace & Defense Springs Market

6.4.1.?Brazil Aerospace & Defense Springs Market

6.4.2.?Mexico Aerospace & Defense Springs Market

6.4.3.?Rest of Latin America Aerospace & Defense Springs Market

6.5.?Middle East & Africa Aerospace & Defense Springs Market

6.5.1.?Saudi Arabia Aerospace & Defense Springs Market

6.5.2.?South Africa Aerospace & Defense Springs Market

6.5.3.?Rest of Middle East & Africa Aerospace & Defense Springs Market

CHAPTER 7.??COMPETITIVE INTELLIGENCE

7.1.?Key Company SWOT Analysis

7.1.1.?Lesj?fors AB

7.1.2.?Mubea Group

7.1.3.?Barnes Group Inc.

7.2.?Top Market Strategies

7.3.?Company Profiles

7.3.1.?Lesj?fors AB

7.3.1.1.?Key Information

7.3.1.2.?Overview

7.3.1.3.?Financial (Subject to Data Availability)

7.3.1.4.?Product Summary

7.3.1.5.?Market Strategies

7.3.2.?Mubea Group

7.3.3.?Barnes Group Inc.

7.3.4.?NHK Spring Co., Ltd.

7.3.5.?MW Industries, Inc.

7.3.6.?Mitsubishi Steel Mfg. Co., Ltd.

7.3.7.?DANLY GmbH

7.3.8.?Springco Metal Coating

7.3.9.?Gutekunst Federn

7.3.10.?Mecon Engineering

7.3.11.?HyTech Spring and Machine Corp.

7.3.12.?ACX Spring

7.3.13.?BellowsTech, LLC

7.3.14.?Associated Spring Raymond

7.3.15.?John Evans' Sons, Inc.

CHAPTER 8.??RESEARCH PROCESS

8.1.?Research Process

8.1.1.?Data Mining

8.1.2.?Analysis

8.1.3.?Market Estimation

8.1.4.?Validation

8.1.5.?Publishing

8.2.?Research Attributes

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