

# Global Robotics Spring Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Robotics Spring market size is expected to reach \$ 1082 million by 2032, rising at a market growth of 27.7% CAGR during the forecast period (2026-2032).

Robotics springs are key mechanical components designed for robot systems, typically used to store and release mechanical energy, provide force feedback, buffer vibrations, support motion control, and improve the responsiveness of robot joints and actuators. Springs are widely used in industrial robots, service robots, mobile robots, and collaborative robots, and are one of the core components of robot structures. Depending on the spring structure and materials, robot springs can be classified into compression springs, tension springs, and torsion springs, used to achieve joint elasticity, torque compensation, and dynamic control. The design and manufacturing of robot springs require high precision, high fatigue life, and material stability, directly affecting the efficiency, lifespan, and reliability of robot systems. In 2025, the global robotics spring production capacity is estimated at approximately 32.53 million units, with an average price of about \$5.8 per unit. Industry gross margins are generally between 20% and 35%, and companies typically have an annual production capacity of 100,000 units.

As global manufacturing accelerates its shift towards automated and intelligent production, the penetration rate of robotic systems continues to increase. As a core mechanical component, the market demand for robotic springs is growing in tandem. The widespread deployment of industrial robots, collaborative robots, and service robots in automotive manufacturing, electronic assembly, warehousing and logistics, and medical rehabilitation provides a stable demand base for precision springs. Particularly in Asia, especially in China, Japan, and South Korea, where robot installations rank among the highest in the world, the spring market is steadily expanding. Robotic springs

are not only used for traditional compression and torsion functions but also play a crucial role in novel flexible joint control and force feedback systems, driving innovation in materials and design. Despite the optimistic market outlook, the challenges facing the robotic spring industry cannot be ignored. Fluctuations in raw material prices, instability in the global supply chain, and the high investment requirements for equipment in high-precision manufacturing all put pressure on corporate profit margins. Meanwhile, the overall integration of robot systems is continuously improving, with some manufacturers favoring highly integrated electric drive and intelligent control solutions, changing the demand patterns for traditional mechanical springs. Small and medium-sized enterprises (SMEs) also face significant pressure in technological research and development and market competition, leading to a further increase in industry concentration. Downstream market demand continues to differentiate. On the one hand, traditional manufacturing maintains stable demand for high-durability, high-performance springs; on the other hand, emerging application scenarios such as service robots and collaborative robots are rapidly rising, placing higher demands on lightweight, highly responsive springs. As the overall functions of robots become more complex, spring design is evolving towards high-performance materials, composite materials, and intelligent integration to meet more complex motion control and mechanical feedback requirements. Overall, the robot spring market will demonstrate steady growth as the overall penetration rate of robot systems increases.

This report studies the global Robotics Spring production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotics Spring and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robotics Spring that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Robotics Spring total production and demand, 2021-2032, (K Units)

Global Robotics Spring total production value, 2021-2032, (USD Million)

Global Robotics Spring production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Robotics Spring consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Robotics Spring domestic production, consumption, key domestic manufacturers and share

Global Robotics Spring production by manufacturer, production, price, value and market

share 2021-2026, (USD Million) & (K Units)

Global Robotics Spring production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Robotics Spring production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robotics Spring market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include John Evans' Sons, Newcomb Spring, Lee Spring, Kern Liebers, Vulcan Spring, Mario Schaaf GmbH & Co. KG, Associated Spring, Acxess Spring, Katy Spring, European Springs, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robotics Spring market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robotics Spring Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Robotics Spring Market, Segmentation by Type:

Tension Spring

Compression Spring

Torsion Spring

Wave Spring

Disc Spring

Snap Ring

#### Global Robotics Spring Market, Segmentation by Material:

Chromium Alloy

Nickel-Titanium Alloy

Other

#### Global Robotics Spring Market, Segmentation by Channel:

Direct Selling

Distribution

#### Global Robotics Spring Market, Segmentation by Size:

Large Spring

Small Spring

#### Global Robotics Spring Market, Segmentation by Application:

Humanoid Robots

Industrial Robots

#### Companies Profiled:

John Evans' Sons

Newcomb Spring

Lee Spring

Kern Liebers

Vulcan Spring

Mario Schaaf GmbH & Co. KG

Associated Spring

Axcess Spring

Katy Spring

European Springs

Myers Spring

Tokai Spring industries, Inc.

Lesjofors Group

Hwaway Technology Corporation

Freewon China Co.,Ltd.

Zhejiang Meili High Technology Co.,Ltd.

**Key Questions Answered:**

1. How big is the global Robotics Spring market?
2. What is the demand of the global Robotics Spring market?
3. What is the year over year growth of the global Robotics Spring market?
4. What is the production and production value of the global Robotics Spring market?
5. Who are the key producers in the global Robotics Spring market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Robotics Spring Introduction
- 1.2 World Robotics Spring Supply & Forecast
  - 1.2.1 World Robotics Spring Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Robotics Spring Production (2021-2032)
  - 1.2.3 World Robotics Spring Pricing Trends (2021-2032)
- 1.3 World Robotics Spring Production by Region (Based on Production Site)
  - 1.3.1 World Robotics Spring Production Value by Region (2021-2032)
  - 1.3.2 World Robotics Spring Production by Region (2021-2032)
  - 1.3.3 World Robotics Spring Average Price by Region (2021-2032)
  - 1.3.4 North America Robotics Spring Production (2021-2032)
  - 1.3.5 Europe Robotics Spring Production (2021-2032)
  - 1.3.6 China Robotics Spring Production (2021-2032)
  - 1.3.7 Japan Robotics Spring Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Robotics Spring Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Robotics Spring Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Robotics Spring Demand (2021-2032)
- 2.2 World Robotics Spring Consumption by Region
  - 2.2.1 World Robotics Spring Consumption by Region (2021-2026)
  - 2.2.2 World Robotics Spring Consumption Forecast by Region (2027-2032)
- 2.3 United States Robotics Spring Consumption (2021-2032)
- 2.4 China Robotics Spring Consumption (2021-2032)
- 2.5 Europe Robotics Spring Consumption (2021-2032)
- 2.6 Japan Robotics Spring Consumption (2021-2032)
- 2.7 South Korea Robotics Spring Consumption (2021-2032)
- 2.8 ASEAN Robotics Spring Consumption (2021-2032)
- 2.9 India Robotics Spring Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Robotics Spring Production Value by Manufacturer (2021-2026)

- 3.2 World Robotics Spring Production by Manufacturer (2021-2026)
- 3.3 World Robotics Spring Average Price by Manufacturer (2021-2026)
- 3.4 Robotics Spring Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Robotics Spring Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Robotics Spring in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Robotics Spring in 2025
- 3.6 Robotics Spring Market: Overall Company Footprint Analysis
  - 3.6.1 Robotics Spring Market: Region Footprint
  - 3.6.2 Robotics Spring Market: Company Product Type Footprint
  - 3.6.3 Robotics Spring Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Robotics Spring Production Value Comparison
  - 4.1.1 United States VS China: Robotics Spring Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Robotics Spring Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Robotics Spring Production Comparison
  - 4.2.1 United States VS China: Robotics Spring Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Robotics Spring Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Robotics Spring Consumption Comparison
  - 4.3.1 United States VS China: Robotics Spring Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Robotics Spring Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Robotics Spring Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Robotics Spring Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Robotics Spring Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Robotics Spring Production (2021-2026)

4.5 China Based Robotics Spring Manufacturers and Market Share

4.5.1 China Based Robotics Spring Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Robotics Spring Production Value (2021-2026)

4.5.3 China Based Manufacturers Robotics Spring Production (2021-2026)

4.6 Rest of World Based Robotics Spring Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Robotics Spring Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Robotics Spring Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Robotics Spring Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Robotics Spring Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Tension Spring

5.2.2 Compression Spring

5.2.3 Torsion Spring

5.2.4 Wave Spring

5.2.5 Disc Spring

5.2.6 Snap Ring

5.3 Market Segment by Type

5.3.1 World Robotics Spring Production by Type (2021-2032)

5.3.2 World Robotics Spring Production Value by Type (2021-2032)

5.3.3 World Robotics Spring Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY MATERIAL**

6.1 World Robotics Spring Market Size Overview by Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Material

6.2.1 Chromium Alloy

6.2.2 Nickel-Titanium Alloy

6.2.3 Other

6.3 Market Segment by Material

6.3.1 World Robotics Spring Production by Material (2021-2032)

6.3.2 World Robotics Spring Production Value by Material (2021-2032)

6.3.3 World Robotics Spring Average Price by Material (2021-2032)

## **7 MARKET ANALYSIS BY CHANNEL**

7.1 World Robotics Spring Market Size Overview by Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Channel

7.2.1 Direct Selling

7.2.2 Distribution

7.3 Market Segment by Channel

7.3.1 World Robotics Spring Production by Channel (2021-2032)

7.3.2 World Robotics Spring Production Value by Channel (2021-2032)

7.3.3 World Robotics Spring Average Price by Channel (2021-2032)

## **8 MARKET ANALYSIS BY SIZE**

8.1 World Robotics Spring Market Size Overview by Size: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Size

8.2.1 Large Spring

8.2.2 Small Spring

8.3 Market Segment by Size

8.3.1 World Robotics Spring Production by Size (2021-2032)

8.3.2 World Robotics Spring Production Value by Size (2021-2032)

8.3.3 World Robotics Spring Average Price by Size (2021-2032)

## **9 MARKET ANALYSIS BY APPLICATION**

9.1 World Robotics Spring Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Humanoid Robots

9.2.2 Industrial Robots

9.3 Market Segment by Application

9.3.1 World Robotics Spring Production by Application (2021-2032)

9.3.2 World Robotics Spring Production Value by Application (2021-2032)

9.3.3 World Robotics Spring Average Price by Application (2021-2032)

## **10 COMPANY PROFILES**

10.1 John Evans' Sons

- 10.1.1 John Evans' Sons Details
- 10.1.2 John Evans' Sons Major Business
- 10.1.3 John Evans' Sons Robotics Spring Product and Services
- 10.1.4 John Evans' Sons Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.1.5 John Evans' Sons Recent Developments/Updates
- 10.1.6 John Evans' Sons Competitive Strengths & Weaknesses
- 10.2 Newcomb Spring
  - 10.2.1 Newcomb Spring Details
  - 10.2.2 Newcomb Spring Major Business
  - 10.2.3 Newcomb Spring Robotics Spring Product and Services
  - 10.2.4 Newcomb Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.2.5 Newcomb Spring Recent Developments/Updates
  - 10.2.6 Newcomb Spring Competitive Strengths & Weaknesses
- 10.3 Lee Spring
  - 10.3.1 Lee Spring Details
  - 10.3.2 Lee Spring Major Business
  - 10.3.3 Lee Spring Robotics Spring Product and Services
  - 10.3.4 Lee Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.3.5 Lee Spring Recent Developments/Updates
  - 10.3.6 Lee Spring Competitive Strengths & Weaknesses
- 10.4 Kern Liebers
  - 10.4.1 Kern Liebers Details
  - 10.4.2 Kern Liebers Major Business
  - 10.4.3 Kern Liebers Robotics Spring Product and Services
  - 10.4.4 Kern Liebers Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.4.5 Kern Liebers Recent Developments/Updates
  - 10.4.6 Kern Liebers Competitive Strengths & Weaknesses
- 10.5 Vulcan Spring
  - 10.5.1 Vulcan Spring Details
  - 10.5.2 Vulcan Spring Major Business
  - 10.5.3 Vulcan Spring Robotics Spring Product and Services
  - 10.5.4 Vulcan Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.5.5 Vulcan Spring Recent Developments/Updates
  - 10.5.6 Vulcan Spring Competitive Strengths & Weaknesses

## 10.6 Mario Schaaf GmbH & Co. KG

10.6.1 Mario Schaaf GmbH & Co. KG Details

10.6.2 Mario Schaaf GmbH & Co. KG Major Business

10.6.3 Mario Schaaf GmbH & Co. KG Robotics Spring Product and Services

10.6.4 Mario Schaaf GmbH & Co. KG Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 Mario Schaaf GmbH & Co. KG Recent Developments/Updates

10.6.6 Mario Schaaf GmbH & Co. KG Competitive Strengths & Weaknesses

## 10.7 Associated Spring

10.7.1 Associated Spring Details

10.7.2 Associated Spring Major Business

10.7.3 Associated Spring Robotics Spring Product and Services

10.7.4 Associated Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.7.5 Associated Spring Recent Developments/Updates

10.7.6 Associated Spring Competitive Strengths & Weaknesses

## 10.8 Acess Spring

10.8.1 Acess Spring Details

10.8.2 Acess Spring Major Business

10.8.3 Acess Spring Robotics Spring Product and Services

10.8.4 Acess Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Acess Spring Recent Developments/Updates

10.8.6 Acess Spring Competitive Strengths & Weaknesses

## 10.9 Katy Spring

10.9.1 Katy Spring Details

10.9.2 Katy Spring Major Business

10.9.3 Katy Spring Robotics Spring Product and Services

10.9.4 Katy Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 Katy Spring Recent Developments/Updates

10.9.6 Katy Spring Competitive Strengths & Weaknesses

## 10.10 European Springs

10.10.1 European Springs Details

10.10.2 European Springs Major Business

10.10.3 European Springs Robotics Spring Product and Services

10.10.4 European Springs Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 European Springs Recent Developments/Updates

- 10.10.6 European Springs Competitive Strengths & Weaknesses
- 10.11 Myers Spring
  - 10.11.1 Myers Spring Details
  - 10.11.2 Myers Spring Major Business
  - 10.11.3 Myers Spring Robotics Spring Product and Services
  - 10.11.4 Myers Spring Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.11.5 Myers Spring Recent Developments/Updates
  - 10.11.6 Myers Spring Competitive Strengths & Weaknesses
- 10.12 Tokai Spring industries, Inc.
  - 10.12.1 Tokai Spring industries, Inc. Details
  - 10.12.2 Tokai Spring industries, Inc. Major Business
  - 10.12.3 Tokai Spring industries, Inc. Robotics Spring Product and Services
  - 10.12.4 Tokai Spring industries, Inc. Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.12.5 Tokai Spring industries, Inc. Recent Developments/Updates
  - 10.12.6 Tokai Spring industries, Inc. Competitive Strengths & Weaknesses
- 10.13 Lesjofors Group
  - 10.13.1 Lesjofors Group Details
  - 10.13.2 Lesjofors Group Major Business
  - 10.13.3 Lesjofors Group Robotics Spring Product and Services
  - 10.13.4 Lesjofors Group Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.13.5 Lesjofors Group Recent Developments/Updates
  - 10.13.6 Lesjofors Group Competitive Strengths & Weaknesses
- 10.14 Hwaway Technology Corporation
  - 10.14.1 Hwaway Technology Corporation Details
  - 10.14.2 Hwaway Technology Corporation Major Business
  - 10.14.3 Hwaway Technology Corporation Robotics Spring Product and Services
  - 10.14.4 Hwaway Technology Corporation Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.14.5 Hwaway Technology Corporation Recent Developments/Updates
  - 10.14.6 Hwaway Technology Corporation Competitive Strengths & Weaknesses
- 10.15 Freewon China Co.,Ltd.
  - 10.15.1 Freewon China Co.,Ltd. Details
  - 10.15.2 Freewon China Co.,Ltd. Major Business
  - 10.15.3 Freewon China Co.,Ltd. Robotics Spring Product and Services
  - 10.15.4 Freewon China Co.,Ltd. Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.15.5 Freewon China Co.,Ltd. Recent Developments/Updates
- 10.15.6 Freewon China Co.,Ltd. Competitive Strengths & Weaknesses
- 10.16 Zhejiang Meili High Technology Co.,Ltd.
  - 10.16.1 Zhejiang Meili High Technology Co.,Ltd. Details
  - 10.16.2 Zhejiang Meili High Technology Co.,Ltd. Major Business
  - 10.16.3 Zhejiang Meili High Technology Co.,Ltd. Robotics Spring Product and Services
  - 10.16.4 Zhejiang Meili High Technology Co.,Ltd. Robotics Spring Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.16.5 Zhejiang Meili High Technology Co.,Ltd. Recent Developments/Updates
  - 10.16.6 Zhejiang Meili High Technology Co.,Ltd. Competitive Strengths & Weaknesses

## **11 INDUSTRY CHAIN ANALYSIS**

- 11.1 Robotics Spring Industry Chain
- 11.2 Robotics Spring Upstream Analysis
  - 11.2.1 Robotics Spring Core Raw Materials
  - 11.2.2 Main Manufacturers of Robotics Spring Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Robotics Spring Production Mode
- 11.6 Robotics Spring Procurement Model
- 11.7 Robotics Spring Industry Sales Model and Sales Channels
  - 11.7.1 Robotics Spring Sales Model
  - 11.7.2 Robotics Spring Typical Distributors

## **12 RESEARCH FINDINGS AND CONCLUSION**

## **13 APPENDIX**

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Robotics Spring Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Robotics Spring Production Value by Region (2021-2026) & (USD Million)

Table 3. World Robotics Spring Production Value by Region (2027-2032) & (USD Million)

Table 4. World Robotics Spring Production Value Market Share by Region (2021-2026)

Table 5. World Robotics Spring Production Value Market Share by Region (2027-2032)

Table 6. World Robotics Spring Production by Region (2021-2026) & (K Units)

Table 7. World Robotics Spring Production by Region (2027-2032) & (K Units)

Table 8. World Robotics Spring Production Market Share by Region (2021-2026)

Table 9. World Robotics Spring Production Market Share by Region (2027-2032)

Table 10. World Robotics Spring Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Robotics Spring Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Robotics Spring Major Market Trends

Table 13. World Robotics Spring Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Robotics Spring Consumption by Region (2021-2026) & (K Units)

Table 15. World Robotics Spring Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Robotics Spring Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Robotics Spring Producers in 2025

Table 18. World Robotics Spring Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Robotics Spring Producers in 2025

Table 20. World Robotics Spring Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Robotics Spring Company Evaluation Quadrant

Table 22. World Robotics Spring Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Robotics Spring Production Site of Key Manufacturer

Table 24. Robotics Spring Market: Company Product Type Footprint

Table 25. Robotics Spring Market: Company Product Application Footprint

Table 26. Robotics Spring Competitive Factors

Table 27. Robotics Spring New Entrant and Capacity Expansion Plans

Table 28. Robotics Spring Mergers & Acquisitions Activity

Table 29. United States VS China Robotics Spring Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Robotics Spring Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Robotics Spring Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Robotics Spring Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Robotics Spring Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Robotics Spring Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Robotics Spring Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Robotics Spring Production Market Share (2021-2026)

Table 37. China Based Robotics Spring Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Robotics Spring Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Robotics Spring Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Robotics Spring Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Robotics Spring Production Market Share (2021-2026)

Table 42. Rest of World Based Robotics Spring Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Robotics Spring Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Robotics Spring Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Robotics Spring Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Robotics Spring Production Market Share (2021-2026)

Table 47. World Robotics Spring Production Value by Type, (USD Million), 2021 & 2025 & 2032

- Table 48. World Robotics Spring Production by Type (2021-2026) & (K Units)
- Table 49. World Robotics Spring Production by Type (2027-2032) & (K Units)
- Table 50. World Robotics Spring Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Robotics Spring Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Robotics Spring Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Robotics Spring Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Robotics Spring Production Value by Material, (USD Million), 2021 & 2025 & 2032
- Table 55. World Robotics Spring Production by Material (2021-2026) & (K Units)
- Table 56. World Robotics Spring Production by Material (2027-2032) & (K Units)
- Table 57. World Robotics Spring Production Value by Material (2021-2026) & (USD Million)
- Table 58. World Robotics Spring Production Value by Material (2027-2032) & (USD Million)
- Table 59. World Robotics Spring Average Price by Material (2021-2026) & (US\$/Unit)
- Table 60. World Robotics Spring Average Price by Material (2027-2032) & (US\$/Unit)
- Table 61. World Robotics Spring Production Value by Channel, (USD Million), 2021 & 2025 & 2032
- Table 62. World Robotics Spring Production by Channel (2021-2026) & (K Units)
- Table 63. World Robotics Spring Production by Channel (2027-2032) & (K Units)
- Table 64. World Robotics Spring Production Value by Channel (2021-2026) & (USD Million)
- Table 65. World Robotics Spring Production Value by Channel (2027-2032) & (USD Million)
- Table 66. World Robotics Spring Average Price by Channel (2021-2026) & (US\$/Unit)
- Table 67. World Robotics Spring Average Price by Channel (2027-2032) & (US\$/Unit)
- Table 68. World Robotics Spring Production Value by Size, (USD Million), 2021 & 2025 & 2032
- Table 69. World Robotics Spring Production by Size (2021-2026) & (K Units)
- Table 70. World Robotics Spring Production by Size (2027-2032) & (K Units)
- Table 71. World Robotics Spring Production Value by Size (2021-2026) & (USD Million)
- Table 72. World Robotics Spring Production Value by Size (2027-2032) & (USD Million)
- Table 73. World Robotics Spring Average Price by Size (2021-2026) & (US\$/Unit)
- Table 74. World Robotics Spring Average Price by Size (2027-2032) & (US\$/Unit)
- Table 75. World Robotics Spring Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 76. World Robotics Spring Production by Application (2021-2026) & (K Units)
- Table 77. World Robotics Spring Production by Application (2027-2032) & (K Units)
- Table 78. World Robotics Spring Production Value by Application (2021-2026) & (USD

Million)

Table 79. World Robotics Spring Production Value by Application (2027-2032) & (USD Million)

Table 80. World Robotics Spring Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Robotics Spring Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. John Evans' Sons Basic Information, Manufacturing Base and Competitors

Table 83. John Evans' Sons Major Business

Table 84. John Evans' Sons Robotics Spring Product and Services

Table 85. John Evans' Sons Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. John Evans' Sons Recent Developments/Updates

Table 87. John Evans' Sons Competitive Strengths & Weaknesses

Table 88. Newcomb Spring Basic Information, Manufacturing Base and Competitors

Table 89. Newcomb Spring Major Business

Table 90. Newcomb Spring Robotics Spring Product and Services

Table 91. Newcomb Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Newcomb Spring Recent Developments/Updates

Table 93. Newcomb Spring Competitive Strengths & Weaknesses

Table 94. Lee Spring Basic Information, Manufacturing Base and Competitors

Table 95. Lee Spring Major Business

Table 96. Lee Spring Robotics Spring Product and Services

Table 97. Lee Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Lee Spring Recent Developments/Updates

Table 99. Lee Spring Competitive Strengths & Weaknesses

Table 100. Kern Liebers Basic Information, Manufacturing Base and Competitors

Table 101. Kern Liebers Major Business

Table 102. Kern Liebers Robotics Spring Product and Services

Table 103. Kern Liebers Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Kern Liebers Recent Developments/Updates

Table 105. Kern Liebers Competitive Strengths & Weaknesses

Table 106. Vulcan Spring Basic Information, Manufacturing Base and Competitors

Table 107. Vulcan Spring Major Business

Table 108. Vulcan Spring Robotics Spring Product and Services

Table 109. Vulcan Spring Robotics Spring Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Vulcan Spring Recent Developments/Updates

Table 111. Vulcan Spring Competitive Strengths & Weaknesses

Table 112. Mario Schaaf GmbH & Co. KG Basic Information, Manufacturing Base and Competitors

Table 113. Mario Schaaf GmbH & Co. KG Major Business

Table 114. Mario Schaaf GmbH & Co. KG Robotics Spring Product and Services

Table 115. Mario Schaaf GmbH & Co. KG Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Mario Schaaf GmbH & Co. KG Recent Developments/Updates

Table 117. Mario Schaaf GmbH & Co. KG Competitive Strengths & Weaknesses

Table 118. Associated Spring Basic Information, Manufacturing Base and Competitors

Table 119. Associated Spring Major Business

Table 120. Associated Spring Robotics Spring Product and Services

Table 121. Associated Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Associated Spring Recent Developments/Updates

Table 123. Associated Spring Competitive Strengths & Weaknesses

Table 124. Acxess Spring Basic Information, Manufacturing Base and Competitors

Table 125. Acxess Spring Major Business

Table 126. Acxess Spring Robotics Spring Product and Services

Table 127. Acxess Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Acxess Spring Recent Developments/Updates

Table 129. Acxess Spring Competitive Strengths & Weaknesses

Table 130. Katy Spring Basic Information, Manufacturing Base and Competitors

Table 131. Katy Spring Major Business

Table 132. Katy Spring Robotics Spring Product and Services

Table 133. Katy Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Katy Spring Recent Developments/Updates

Table 135. Katy Spring Competitive Strengths & Weaknesses

Table 136. European Springs Basic Information, Manufacturing Base and Competitors

Table 137. European Springs Major Business

Table 138. European Springs Robotics Spring Product and Services

Table 139. European Springs Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. European Springs Recent Developments/Updates

- Table 141. European Springs Competitive Strengths & Weaknesses
- Table 142. Myers Spring Basic Information, Manufacturing Base and Competitors
- Table 143. Myers Spring Major Business
- Table 144. Myers Spring Robotics Spring Product and Services
- Table 145. Myers Spring Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 146. Myers Spring Recent Developments/Updates
- Table 147. Myers Spring Competitive Strengths & Weaknesses
- Table 148. Tokai Spring industries, Inc. Basic Information, Manufacturing Base and Competitors
- Table 149. Tokai Spring industries, Inc. Major Business
- Table 150. Tokai Spring industries, Inc. Robotics Spring Product and Services
- Table 151. Tokai Spring industries, Inc. Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 152. Tokai Spring industries, Inc. Recent Developments/Updates
- Table 153. Tokai Spring industries, Inc. Competitive Strengths & Weaknesses
- Table 154. Lesjofors Group Basic Information, Manufacturing Base and Competitors
- Table 155. Lesjofors Group Major Business
- Table 156. Lesjofors Group Robotics Spring Product and Services
- Table 157. Lesjofors Group Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 158. Lesjofors Group Recent Developments/Updates
- Table 159. Lesjofors Group Competitive Strengths & Weaknesses
- Table 160. Hwaway Technology Corporation Basic Information, Manufacturing Base and Competitors
- Table 161. Hwaway Technology Corporation Major Business
- Table 162. Hwaway Technology Corporation Robotics Spring Product and Services
- Table 163. Hwaway Technology Corporation Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 164. Hwaway Technology Corporation Recent Developments/Updates
- Table 165. Hwaway Technology Corporation Competitive Strengths & Weaknesses
- Table 166. Freewon China Co.,Ltd. Basic Information, Manufacturing Base and Competitors
- Table 167. Freewon China Co.,Ltd. Major Business
- Table 168. Freewon China Co.,Ltd. Robotics Spring Product and Services
- Table 169. Freewon China Co.,Ltd. Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 170. Freewon China Co.,Ltd. Recent Developments/Updates

Table 171. Freewon China Co.,Ltd. Competitive Strengths & Weaknesses

Table 172. Zhejiang Meili High Technology Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 173. Zhejiang Meili High Technology Co.,Ltd. Major Business

Table 174. Zhejiang Meili High Technology Co.,Ltd. Robotics Spring Product and Services

Table 175. Zhejiang Meili High Technology Co.,Ltd. Robotics Spring Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. Zhejiang Meili High Technology Co.,Ltd. Recent Developments/Updates

Table 177. Zhejiang Meili High Technology Co.,Ltd. Competitive Strengths & Weaknesses

Table 178. Global Key Players of Robotics Spring Upstream (Raw Materials)

Table 179. Global Robotics Spring Typical Customers

Table 180. Robotics Spring Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Robotics Spring Picture

Figure 2. World Robotics Spring Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Robotics Spring Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Robotics Spring Production (2021-2032) & (K Units)

Figure 5. World Robotics Spring Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Robotics Spring Production Value Market Share by Region (2021-2032)

Figure 7. World Robotics Spring Production Market Share by Region (2021-2032)

Figure 8. North America Robotics Spring Production (2021-2032) & (K Units)

Figure 9. Europe Robotics Spring Production (2021-2032) & (K Units)

Figure 10. China Robotics Spring Production (2021-2032) & (K Units)

Figure 11. Japan Robotics Spring Production (2021-2032) & (K Units)

Figure 12. Robotics Spring Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Robotics Spring Consumption (2021-2032) & (K Units)

Figure 15. World Robotics Spring Consumption Market Share by Region (2021-2032)

Figure 16. United States Robotics Spring Consumption (2021-2032) & (K Units)

Figure 17. China Robotics Spring Consumption (2021-2032) & (K Units)

Figure 18. Europe Robotics Spring Consumption (2021-2032) & (K Units)

Figure 19. Japan Robotics Spring Consumption (2021-2032) & (K Units)

Figure 20. South Korea Robotics Spring Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Robotics Spring Consumption (2021-2032) & (K Units)

Figure 22. India Robotics Spring Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Robotics Spring by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Robotics Spring Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Robotics Spring Markets in 2025

Figure 26. United States VS China: Robotics Spring Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Robotics Spring Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Robotics Spring Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Robotics Spring Production Market Share 2025

Figure 30. China Based Manufacturers Robotics Spring Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Robotics Spring Production Market Share 2025

Figure 32. World Robotics Spring Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Robotics Spring Production Value Market Share by Type in 2025

Figure 34. Tension Spring

Figure 35. Compression Spring

Figure 36. Torsion Spring

Figure 37. Wave Spring

Figure 38. Disc Spring

Figure 39. Snap Ring

Figure 40. World Robotics Spring Production Market Share by Type (2021-2032)

Figure 41. World Robotics Spring Production Value Market Share by Type (2021-2032)

Figure 42. World Robotics Spring Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Robotics Spring Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 44. World Robotics Spring Production Value Market Share by Material in 2025

Figure 45. Chromium Alloy

Figure 46. Nickel-Titanium Alloy

Figure 47. Other

Figure 48. World Robotics Spring Production Market Share by Material (2021-2032)

Figure 49. World Robotics Spring Production Value Market Share by Material (2021-2032)

Figure 50. World Robotics Spring Average Price by Material (2021-2032) & (US\$/Unit)

Figure 51. World Robotics Spring Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Figure 52. World Robotics Spring Production Value Market Share by Channel in 2025

Figure 53. Direct Selling

Figure 54. Distribution

Figure 55. World Robotics Spring Production Market Share by Channel (2021-2032)

Figure 56. World Robotics Spring Production Value Market Share by Channel (2021-2032)

Figure 57. World Robotics Spring Average Price by Channel (2021-2032) & (US\$/Unit)

Figure 58. World Robotics Spring Production Value by Size, (USD Million), 2021 & 2025 & 2032

Figure 59. World Robotics Spring Production Value Market Share by Size in 2025

Figure 60. Large Spring

Figure 61. Small Spring

Figure 62. World Robotics Spring Production Market Share by Size (2021-2032)

Figure 63. World Robotics Spring Production Value Market Share by Size (2021-2032)

Figure 64. World Robotics Spring Average Price by Size (2021-2032) & (US\$/Unit)

Figure 65. World Robotics Spring Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Robotics Spring Production Value Market Share by Application in 2025

Figure 67. Humanoid Robots

Figure 68. Industrial Robots

Figure 69. World Robotics Spring Production Market Share by Application (2021-2032)

Figure 70. World Robotics Spring Production Value Market Share by Application (2021-2032)

Figure 71. World Robotics Spring Average Price by Application (2021-2032) & (US\$/Unit)

Figure 72. Robotics Spring Industry Chain

Figure 73. Robotics Spring Procurement Model

Figure 74. Robotics Spring Sales Model

Figure 75. Robotics Spring Sales Channels, Direct Sales, and Distribution

Figure 76. Methodology

Figure 77. Research Process and Data Source

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