

Global Coil Spring Washers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Coil Spring Washers market size is expected to reach \$ 674 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Coil spring washers, also known as helical spring washers or split lock washers, are mechanical devices used in various fastening applications to prevent bolts or nuts from loosening due to vibration or torque. They are made from a coil of metal, typically steel, that is cut at an angle to create a split in the washer. When the washer is compressed during tightening, it exerts a spring-like force against the nut or bolt, increasing the friction between the threads and enhancing the overall locking effect. This helps to maintain the integrity of the assembly and prevents the fasteners from coming undone under stress.

In 2025, global Coil Spring Washers production reached approximately 416 kilotons, with an average global market price of around US\$ 1,185 per ton.

The upstream supply chain of coil spring washers includes raw material suppliers providing carbon steel cold rolled strip, stainless steel strip, alloy spring wire, galvanizing chemicals, passivation coatings and plastic packaging reels, plus equipment vendors supplying wire cutting, coiling stamping, quenching tempering heat treatment and electroplating production lines; midstream manufacturers conduct wire blanking, helical coiling forming, stress relief heat treatment, surface anti-corrosion plating and dimensional sorting inspection to produce standard, heavy and light coil spring lock washers. Downstream distribution channels cover fastener wholesalers, automotive component distributors, machinery parts dealers and industrial e-commerce platforms, delivering finished washers to end manufacturers including automobile assembly plants, wind power equipment factories, rail transit vehicle workshops, electronic appliance

producers, construction engineering contractors and aerospace component manufacturers, supported by bulk cargo logistics, mechanical fastener standard certification and customized specification batch processing services throughout circulation.

Metal strip and wire raw materials dominate total manufacturing costs at 60%?68% of total expenditure, with ordinary carbon steel strip as the mainstream raw material whose prices fluctuate with global steel commodity cycles; anti-corrosion electroplating chemicals, packaging materials and precision stamping molds take an additional 10%?14% of total costs. Direct labor for coiling stamping, heat treatment, electroplating and size sorting accounts for 8%?12%. Factory power consumption for high-temperature quenching furnaces, automated coiling machine depreciation and workshop waste water treatment jointly occupy 5%?9%. The remaining 7%?22% covers mechanical industry certification fees, bulk transportation, inventory capital occupation, sales channel commissions and customized high-precision tolerance testing costs; marine-grade stainless steel anti-corrosion coil spring washers carry an extra 40%?65% unit cost compared to standard carbon steel zinc-plated washers due to premium stainless steel substrates and multi-layer salt-spray resistant surface treatment.

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

This report is a detailed and comprehensive analysis of the world market for Coil Spring Washers 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 Coil Spring Washers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Coil Spring Washers total production and demand, 2021-2032, (Kilotons)

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

Global Coil Spring Washers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Coil Spring Washers consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Coil Spring Washers production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (Kilotons)

Global Coil Spring Washers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Coil Spring Washers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Coil Spring Washers 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 Growermetal, ITW Shakeproof, Kanika Group, Vani Impex, Hebei Delong Fastener Manufacturing Co., Ltd., Seastrom Manufacturing, MacLean Power Systems, Hebei Rongte Fastener Manufacturing Co., Ltd., Ningbo Zhongli Bolts Manufacturing Co., Ltd., Zhuhai Jiali Hardware Products Co., Ltd., 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 Coil Spring Washers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Coil Spring Washers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Coil Spring Washers Market, Segmentation by Type:

Single Coil Spring Washer

Double Coil Spring Washer

Global Coil Spring Washers Market, Segmentation by Main Manufacturing Base Material:

Carbon Steel Coil Spring Washer

Stainless Steel Coil Spring Washer

Other

Global Coil Spring Washers Market, Segmentation by Matched Bolt Nominal Diameter:

Mini Small-Size Washer: M2?M6

Medium Standard Specification Washer: M8?M24

Large Heavy Engineering Washer: >M24

Global Coil Spring Washers Market, Segmentation by Application:

Automotive Industry

Aerospace Industry

Machinery and Equipment

Railway and Transportation

Others

Companies Profiled:

Growermetal

ITW Shakeproof

Kanika Group

Vani Impex

Hebei Delong Fastener Manufacturing Co., Ltd.

Seastrom Manufacturing

MacLean Power Systems

Hebei Rongte Fastener Manufacturing Co., Ltd.

Ningbo Zhongli Bolts Manufacturing Co., Ltd.

Zhuhai Jiali Hardware Products Co., Ltd.

Heiwa Hatsujyo Industry Co., Ltd.

Imperial Co., Ltd.

Tokuhatsu Co., Ltd.

Archerdale

WCL

GHS Fasteners

Srons Engineers

Key Questions Answered:

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

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