

Global Coil Spring Washers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Coil Spring Washers market size was valued at US\$ 507 million in 2025 and is forecast to a readjusted size of US\$ 674 million by 2032 with a CAGR of 4.1% during review period.

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 is a detailed and comprehensive analysis for global Coil Spring Washers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Coil Spring Washers market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coil Spring Washers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coil Spring Washers market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coil Spring Washers market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Coil Spring Washers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Coil Spring Washers market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Coil Spring Washers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Coil Spring Washer

Double Coil Spring Washer

Market segment by Main Manufacturing Base Material

Carbon Steel Coil Spring Washer

Stainless Steel Coil Spring Washer

Other

Market segment by Matched Bolt Nominal Diameter

Mini Small-Size Washer: M2?M6

Medium Standard Specification Washer: M8?M24

Large Heavy Engineering Washer: >M24

Market segment by Application

Automotive Industry

Aerospace Industry

Machinery and Equipment

Railway and Transportation

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Coil Spring Washers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Coil Spring Washers, with price, sales quantity, revenue, and global market share of Coil Spring Washers from 2021 to 2026.

Chapter 3, the Coil Spring Washers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Coil Spring Washers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Coil Spring Washers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Coil Spring Washers.

Chapter 14 and 15, to describe Coil Spring Washers sales channel, distributors, customers, research findings and conclusion.

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