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Global Thread Whirling Unit 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 Thread Whirling Unit market size was valued at US$ 169 million in 2025 and is forecast to a readjusted size of US$ 248 million by 2032 with a CAGR of 5.7% during review period.

Thread Whirling Units are specialized rotary cutting units installed on Swiss-type lathes, CNC turning centers, and precision screw-machining equipment to manufacture high-precision threads through high-speed whirling motion. A cutter ring with multiple inserts rotates around the workpiece while the workpiece rotates more slowly, allowing efficient production of long, slender, and accurate threaded components. They are mainly used for medical bone screws, dental implants, lead screws, worm shafts, aerospace fasteners, precision connectors, micromechanical screws, and specialty threaded parts. This scope refers to thread whirling units and whirling heads, excluding complete CNC lathes, ordinary driven tool holders, general thread milling cutters, and single-point threading tools.The industrial chain of Thread Whirling Units includes upstream suppliers of alloy steel, tool steel, carbide inserts, precision bearings, spindle components, gears, shafts, seals, housings, coolant connectors, coatings, heat-treatment services, grinding services, balancing equipment, CNC-machined parts, and measuring instruments. The midstream consists of precision tooling and machine-tool accessory manufacturers that design and assemble whirling heads, rotary cutter rings, insert seats, spindle assemblies, transmission structures, mounting interfaces, coolant-through channels, sealing systems, and customized units for specific machine platforms. Downstream users include medical implant manufacturers, dental product manufacturers, precision screw producers, Swiss-type lathe users, aerospace fastener suppliers, automotive component factories, lead-screw processors, micromachining shops, connector manufacturers, and high-precision metalworking plants. Supporting

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services cover unit selection, installation, runout inspection, cutter setup, repair, bearing replacement, balancing, and process optimization.

Demand for Thread Whirling Units is supported by precision screw machining, medical implant manufacturing, aerospace fasteners, worm shafts, lead screws, and long-thread components that require high surface quality and stable dimensional accuracy. A key market trend is the move toward more compact, rigid, and easy-to-integrate whirling heads that can work with advanced CNC lathes and automated production cells. Opportunities are strongest in medical devices, aerospace components, precision transmission parts, and high-value small-batch machining, where thread quality and machining efficiency are critical. Suppliers can also benefit from demand for improved cutter systems, better vibration control, faster setup, and application-specific customization. Key challenges include strict runout requirements, tool wear control, heat generation, process stability, machine-interface compatibility, operator skill requirements, and the need to balance customization with delivery speed.In 2025, global Thread Whirling Unit production reached approximately 4.80 thousand units, with an average global market price of around US$34,200 per unit. The gross profit margin of major companies in the industry ranged from 31% to 47%. In 2025, the global production capacity of Thread Whirling Units was approximately 6.39 thousand units.

Report Scope

This report is a detailed and comprehensive analysis for global Thread Whirling Unit 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 Thread Whirling Unit market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Thread Whirling Unit market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

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Global Thread Whirling Unit market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Thread Whirling Unit market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 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 Thread Whirling Unit

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 Thread Whirling Unit 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 WTO Werkzeug-Einrichtungen GmbH, heimatec GmbH, W&F Werkzeugtechnik GmbH, SUHNER Schweiz AG, PCM Precision Tooling SA, Madaula, S.A., M.T. S.r.l., KGT-EU S.r.l., ESA Eppinger GmbH, Alberti Umberto S.r.l., etc.

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

Thread Whirling Unit 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 Segmentation

Market segment by Type

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External Thread Whirling Unit

Internal Thread Whirling Unit

Market segment by Helix-Angle Setting Method

Fixed-Angle Thread Whirling Unit

Manually Adjustable-Angle Thread Whirling Unit

CNC-Programmable Helix-Angle Thread Whirling Unit

Market segment by Rated Maximum Output Speed

Thread Whirling Unit with Rated Maximum Output Speed Up to 6000 rpm

Thread Whirling Unit with Rated Maximum Output Speed Over 6000 rpm and Up to 12000 rpm

Thread Whirling Unit with Rated Maximum Output Speed Over 12000 rpm

Market segment by Application

Medical Device Manufacturing

Automotive Component Manufacturing

Aerospace and Defense Component Manufacturing

Industrial Machinery Component Manufacturing

Energy Equipment Component Manufacturing

Electronics and Semiconductor Equipment Component Manufacturing

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Precision Instrument and Watch Component Manufacturing

General Industrial Fastener Manufacturing

Major players covered

WTO Werkzeug-Einrichtungen GmbH

heimatec GmbH

W&F Werkzeugtechnik GmbH

SUHNER Schweiz AG

PCM Precision Tooling SA

Madaula, S.A.

M.T. S.r.l.

KGT-EU S.r.l.

ESA Eppinger GmbH

Alberti Umberto S.r.l.

Somma Tool Company, Inc.

STAR MICRONICS CO., LTD.

Changzhou Langjue Machinery Equipment Co., Ltd.

Changzhou Zerda Machinery Co., Ltd.

Sphoorti Machine Tools Pvt. Ltd.

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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)

Chapter Outline

Chapter 1, to describe Thread Whirling Unit product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thread Whirling Unit, with price, sales quantity, revenue, and global market share of Thread Whirling Unit from 2021 to 2026.

Chapter 3, the Thread Whirling Unit competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thread Whirling Unit 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 Thread Whirling Unit 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

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analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thread Whirling Unit.

Chapter 14 and 15, to describe Thread Whirling Unit sales channel, distributors, customers, research findings and conclusion.

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