

Global Thread Whirling Unit Market Growth 2026-2032

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Abstracts

The global Thread Whirling Unit market size is predicted to grow from US\$ 160 million in 2025 to US\$ 241 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

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 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

LP Information, Inc. (LPI) ' newest research report, the "Thread Whirling Unit Industry Forecast" looks at past sales and reviews total world Thread Whirling Unit sales in 2025, providing a comprehensive analysis by region and market sector of projected Thread Whirling Unit sales for 2026 through 2032. With Thread Whirling Unit sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thread Whirling Unit industry.

This Insight Report provides a comprehensive analysis of the global Thread Whirling Unit landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thread Whirling Unit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thread Whirling Unit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thread Whirling Unit and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up

qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thread Whirling Unit.

This report presents a comprehensive overview, market shares, and growth opportunities of Thread Whirling Unit market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

External Thread Whirling Unit

Internal Thread Whirling Unit

Segmentation by Helix-Angle Setting Method:

Fixed-Angle Thread Whirling Unit

Manually Adjustable-Angle Thread Whirling Unit

CNC-Programmable Helix-Angle Thread Whirling Unit

Segmentation 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

Segmentation 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

Precision Instrument and Watch Component Manufacturing

General Industrial Fastener Manufacturing

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thread Whirling Unit market?

What factors are driving Thread Whirling Unit market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thread Whirling Unit market opportunities vary by end market size?

How does Thread Whirling Unit break out by Type, by Application?

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