

Global CNC Yarn Guiding and Winding Machine 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 CNC Yarn Guiding and Winding Machine market size was valued at US\$ 200 million in 2025 and is forecast to a readjusted size of US\$ 326 million by 2032 with a CAGR of 7.3% during review period.

A CNC yarn winding machine is a yarn winding device that uses a numerical control system (CNC) to precisely control the yarn guiding motion, winding speed, and tension. It is mainly used to neatly and evenly wind yarn into bobbins or packages according to a set winding pattern. Compared with traditional mechanical yarn guiding methods, this equipment achieves real-time adjustment of winding angle, yarn density, and tension through electronic yarn guiding and programmed control. It can adapt to different yarn specifications and process requirements, significantly improving winding consistency, forming quality, and production efficiency. It is widely used in the finishing and precision winding processes of chemical fibers, cotton spinning, industrial yarns, and specialty yarns. Sales in 2025 are estimated at approximately 14,000 units, with an average price of around US\$13,000. Total production capacity is estimated at around 15,000 units, with a gross profit margin of 45%.

Market Segmentation by Product Type

Cotton yarn winders: Primarily used for winding pure cotton or blended cotton yarns, they adapt to yarn characteristics such as frequent yarn breakage and unstable tension. They feature excellent tension control and a yarn breakage stop function, making them commonly used in yarn processing processes such as carded cotton, combed yarn, and siro spinning. Market Share: Approximately 46%

Chemical fiber winders: Designed specifically for chemical fibers such as polyester, nylon, and viscose, they typically require constant tension control systems and low-friction yarn guides to meet the high-strength, low-elasticity, and high-speed winding requirements of chemical fiber yarns. Market Share: Approximately 32%

Wool yarn winders: Targeted at natural animal fibers such as wool, angora, and cashmere, wool yarn winders emphasize low tension operation, hairiness control, and winding uniformity. They feature soft-edge winding, slow start and stop, and constant temperature control to prevent yarn breakage and structural damage. Market Share: Approximately 22%

Upstream and Downstream Analysis

Key components in the upstream supply chain include: servo motors, yarn guide arms, tension sensors, cross-feeder components, electronic control motherboards, human-machine interfaces and PLC modules, and CNC-machined bobbins and creels. Manufacturers rely on electronic drive and precision machining capabilities, as well as control system and software algorithm development capabilities. Downstream applications primarily include garment weaving mills, dyeing and finishing plants, knitting workshops, and technical textile production. Demand is concentrated in yarn pretreatment, dyeing and finishing preparation, product packaging, and applications requiring increased quality standards.

Technology Trends and Innovation Directions

Multi-sensor tension control and visual monitoring: Tension sensors combined with optical/machine vision monitor bobbin shape and yarn defects, automatically adjusting the yarn path and speed. Modular and automated auxiliary systems include automatic bobbin changing, automatic yarn cutting, and remote monitoring and maintenance.

Development Trends and Market Outlook

Over the next 3-5 years, the electronic yarn guide winder market will demonstrate the following trends: a shift from manual/semi-automatic operation to fully automated, unmanned operation; closer integration of equipment with dyeing and finishing processes, post-processing, and supply chain systems; policies and industry standards (such as those for environmental protection, wastewater control, and yarn quality control) will further promote the adoption of high-quality winders; and the expansion of the textile industry in emerging markets (Africa, Southeast Asia, and Central and South

America) will provide opportunities for equipment exports and localized production.

This report is a detailed and comprehensive analysis for global CNC Yarn Guiding and Winding Machine 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 CNC Yarn Guiding and Winding Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CNC Yarn Guiding and Winding Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CNC Yarn Guiding and Winding Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CNC Yarn Guiding and Winding Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 CNC Yarn Guiding and Winding Machine
- 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 CNC Yarn Guiding and Winding Machine 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 Saurer, Picanol, Zimmer AU, Groz-Beckert, St?ubli Robotics, Iteima, M?ller Machines, Benninger, Rieter, Texpa, etc.

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

Market Segmentation

CNC Yarn Guiding and Winding Machine 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

Cotton Yarn Winding Machine

Chemical Fiber Winding Machine

Wool Yarn Winding Machine

Market segment by Traversing & Winding Method

Reciprocating CNC Yarn Winder

Spiral Traversing Winding Machine

Precision Cross Winding Machine

Market segment by Control & Function

Basic CNC Yarn Winding Machine

Constant Tension CNC Winder

Closed-loop Tension Control Winder

Market segment by Application

Textile Industry

Medical Industry

Dyeing and Finishing Industry

Others

Major players covered

Saurer

Picanol

Zimmer AU

Groz-Beckert

St?ubli Robotics

Itama

M?ller Machines

Benninger

Rieter

Texpa

Yongxusheng Mechanical & Electrical Technology (Changzhou) Co., Ltd.

Zhejiang Rifa Textile Machinery Co., Ltd.

Qingdao Tianyi Red Flag Textile Machinery Group Co., Ltd.

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 CNC Yarn Guiding and Winding Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CNC Yarn Guiding and Winding Machine, with price, sales quantity, revenue, and global market share of CNC Yarn Guiding and Winding Machine from 2021 to 2026.

Chapter 3, the CNC Yarn Guiding and Winding Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CNC Yarn Guiding and Winding Machine 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 CNC Yarn Guiding and Winding Machine 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 CNC Yarn Guiding and Winding Machine.

Chapter 14 and 15, to describe CNC Yarn Guiding and Winding Machine sales channel,

distributors, customers, research findings and conclusion.

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