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Global CNC Roundness Measuring Instrument Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CNC Roundness Measuring Instrument market size is expected to reach $ 2324 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

A CNC roundness measuring machine is a high-precision shape measurement device used for the precise inspection of workpiece roundness, cylindricity, coaxiality, radial runout, axial runout, flatness, and profile errors. It typically consists of a high-precision rotary spindle, an air-bearing or precision bearing system, a measuring column, displacement sensors, a CNC motion platform, a data acquisition system, measurement software, and an anti-vibration workbench. Its primary applications lie in the quality control stages of high-end manufacturing sectors, including bearings, automotive components, precision shafts, hydraulic parts, aerospace components, machine tool spindles, and mold parts. According to estimates, global sales volume is projected to reach approximately 32,000 units in 2025, with an average unit price of approximately $42,000. The capacity utilization rate is expected to be around 79%, with a gross profit margin of approximately 40%. Upstream and downstream enterprises involved in this industry primarily span fields such as precision air-bearing spindles, optical linear encoders, displacement sensors, servo motion platforms, granite bases, precision machining, measurement software, metrology and calibration services, bearing manufacturing, automotive manufacturing, aerospace, machine tool manufacturing, hydraulic components, precision molds, and third-party inspection services. The product cost structure is primarily distributed as follows: high-precision spindles and rotary platforms account for 30% of costs; sensors and data acquisition modules account for 18%; CNC motion systems and mechanical structures account for 20%; measurement software and algorithms account for 10%; and assembly, commissioning, and metrology calibration account for 12%. ...%; R&D, design, and market service costs account for

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the remaining 10%. On the demand side, requirements encompass the inspection of bearing roundness, geometric and positional errors in automotive components, precision shaft workpieces, hydraulic spools and pump parts, as well as quality control for aerospace components, precision verification for machine tool spindles, laboratory metrology testing, and quality system upgrades for manufacturing enterprises. The list of downstream clients includes bearing manufacturers, automotive parts suppliers, aerospace manufacturers, machine tool builders, hydraulic component manufacturers, precision machining workshops, third-party testing agencies, university laboratories, research institutes, and metrology institutions. In terms of business opportunities, policy-driven growth stems from the demand for metrology and inspection equipment generated by the development of high-end equipment manufacturing, the upgrading of 'industrial mother machines' (machine tools), national quality-strengthening initiatives, the localization of the aerospace industry, and the enhancement of precision manufacturing capabilities. Technological innovation serves as another key driver, fueled by advancements in high-precision air-bearing spindles, nanoscale displacement sensing, automatic self-centering and leveling, intelligent error compensation, 3D shape analysis, and automated inspection software. Furthermore, evolving customer expectations—manifested in a growing demand for higher measurement accuracy, faster inspection efficiency, enhanced data traceability, simplified operation, greater repeatability, and comprehensive after-sales calibration services—collectively propel the development of CNC roundness measuring machines toward greater precision, automation, intelligence, multi-parameter integration, and domestic substitution.

CNC roundness measuring machines represent a category of high-end shape error detection equipment within the realm of precision metrology. Demand for these machines is closely tied to the manufacturing sector's drive to enhance component precision, quality consistency, and process control capabilities. As industries such as bearings, automotive powertrains, aerospace, hydraulic components, machine tool spindles, and precision molds evolve toward higher levels of reliability and machining precision, traditional manual inspection and low-precision measurement methods are increasingly unable to meet the requirements of mass production quality control. Consequently, the importance of CNC roundness measuring machines in production inspection, laboratory metrology, and R&D validation continues to rise. High-end clients focus not only on a device's nominal accuracy but also place significant emphasis on spindle stability, sensor resolution, software analysis capabilities, measurement repeatability, calibration systems, and long-term operational reliability. While foreign brands currently retain a technological edge in high-end roundness measurement, software algorithms, and metrology systems, domestic enterprises are gradually expanding their market share by leveraging localized manufacturing demand, cost

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advantages, rapid delivery speeds, and customized service capabilities. Future competitive efforts will center on areas such as automated fixturing, intelligent measurement programming, error compensation, data networking, quality traceability, and comprehensive multi-parameter evaluation capabilities. Overall, in the coming years, the market for CNC roundness measuring machines is poised to benefit from upgrades in high-end manufacturing, the substitution of imported equipment with domestically produced precision measurement devices, and the strengthening of corporate quality management systems. Demand is expected to maintain robust growth, and companies possessing core spindle technology, sensor integration expertise, measurement software development capabilities, and comprehensive metrology services will be best positioned to gain recognition from mid-to-high-end clientele.

This report studies the global CNC Roundness Measuring Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CNC Roundness Measuring Instrument 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 CNC Roundness Measuring Instrument that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global CNC Roundness Measuring Instrument total production and demand, 2021-2032, (Units)
Global CNC Roundness Measuring Instrument total production value, 2021-2032, (USD Million)
Global CNC Roundness Measuring Instrument production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global CNC Roundness Measuring Instrument consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: CNC Roundness Measuring Instrument domestic production, consumption, key domestic manufacturers and share
Global CNC Roundness Measuring Instrument production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global CNC Roundness Measuring Instrument production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global CNC Roundness Measuring Instrument production by Application, production,

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value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global CNC Roundness Measuring Instrument 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 Zeiss (DE), Jenoptik (DE), Taylor Hobson (GB), Accretech (JP), Mitutoyo (JP), Kosaka Laboratory (JP), Wale Measure (CN), Metrology (TW), Aditya Engineering Company (IN), Elag (CH), 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 CNC Roundness Measuring Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) 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 CNC Roundness Measuring Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global CNC Roundness Measuring Instrument Market, Segmentation by Type:

Below 0.5mm/s

0.5-1mm/s

1-2mm/s

Above 2mm/s

Global CNC Roundness Measuring Instrument Market, Segmentation by Travel Range:

?300mm

300-500mm

?500mm

Global CNC Roundness Measuring Instrument Market, Segmentation by Maximum Air Pressure:

?500KPA

500-1000KPA

?1000KPA

Global CNC Roundness Measuring Instrument Market, Segmentation by Application:

Automotive

Aerospace

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Medical

Scientific Research

Other

Companies Profiled:

Zeiss (DE)

Jenoptik (DE)

Taylor Hobson (GB)

Accretech (JP)

Mitutoyo (JP)

Kosaka Laboratory (JP)

Wale Measure (CN)

Metrology (TW)

Aditya Engineering Company (IN)

Elag (CH)

Mahr (DE)

OEG (DE)

Sm Instruments (KR)

Vollmer (DE)

Taiwan Nakazawa (TW)

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Dongguan Lonroy Equipment (CN)

Shaanxi Wale Electromechanical Technology (CN)

Xi’an Wilson Precision Instruments (CN)

Shanghai Exploit Precision Technology (CN)

Key Questions Answered:
1. How big is the global CNC Roundness Measuring Instrument market?
2. What is the demand of the global CNC Roundness Measuring Instrument market?
3. What is the year over year growth of the global CNC Roundness Measuring Instrument market?
4. What is the production and production value of the global CNC Roundness Measuring Instrument market?
5. Who are the key producers in the global CNC Roundness Measuring Instrument market?
6. What are the growth factors driving the market demand?

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