

Global High Precision Cylindrical Grinder Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G90937626BAEEN.html>

Date: June 2026

Pages: 119

Price: US\$ 4,480.00 (Single User License)

ID: G90937626BAEEN

Abstracts

The global High Precision Cylindrical Grinder market size is expected to reach \$ 1113 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

High Precision Cylindrical Grinder utilizes an advanced rigid structure and high-dynamic-response drive systems to achieve micron-level or sub-micron geometric tolerances and surface finishes. This equipment incorporates precise hydrostatic or dynamic pressure bearings and thermal compensation mechanisms to minimize spindle deformation and thermal displacement during the grinding cycle. It employs closed-loop feedback control systems combined with high-resolution in-process gauging to strictly maintain size consistency and form accuracy throughout the machining process. The machine features optimized vibration damping and isolation technologies to eliminate surface waviness and grinding chatter, ensuring the production of components with superior roundness and surface integrity. In 2025, global High Precision Cylindrical Grinder production reached approximately 4523 units with an average global market price of around k US\$200 per unit.

The future development trends of High Precision Cylindrical Grinder will closely revolve around intelligent manufacturing and the controllability of core technologies. By integrating digital twin and IoT technologies, enterprises will drive equipment evolution towards adaptive control and predictive maintenance, thereby improving production efficiency and reducing costly downtime and maintenance expenses. Major industry trends are characterized by the strengthening of industrial chain and supply chain security. With national policy support for the localization of industrial machine tools, enterprises are dedicated to increasing the localization rate of key components such as high-precision CNC systems, hydrostatic spindles, and linear scales. This aims to

reduce dependence on imported brands and significantly optimize manufacturing cost structures. Simultaneously, the demand for micron-level machining accuracy and surface quality in high-end sectors such as aerospace and new energy vehicles continues to rise. This compels enterprises to continuously innovate ultra-high-speed grinding processes, enhancing market competitiveness and profitability by providing high-value-added solutions. Furthermore, the concept of green manufacturing is becoming increasingly prevalent. Enterprises will accelerate the research and development of efficient cooling and filtration systems to adapt to strict environmental policy orientations, achieving sustainable development by reducing energy consumption and waste disposal costs.

This report studies the global High Precision Cylindrical Grinder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Precision Cylindrical Grinder 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 High Precision Cylindrical Grinder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Precision Cylindrical Grinder total production and demand, 2021-2032, (Units)

Global High Precision Cylindrical Grinder total production value, 2021-2032, (USD Million)

Global High Precision Cylindrical Grinder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High Precision Cylindrical Grinder consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High Precision Cylindrical Grinder domestic production, consumption, key domestic manufacturers and share

Global High Precision Cylindrical Grinder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High Precision Cylindrical Grinder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High Precision Cylindrical Grinder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High Precision Cylindrical Grinder 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 DANOBAT, Campbell Grinder, SHIGIYA Machinery Works, Taiyo Koki, Okamoto Machine Tool Works, EMAG, Bourn & Koch, JTEKT, ZIERSCH, Nidec Corporation, 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 High Precision Cylindrical Grinder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 High Precision Cylindrical Grinder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Precision Cylindrical Grinder Market, Segmentation by Type:

- Penetration Grinding Machines
- Face Grinders
- Universal Cylindrical Grinding Machine
- Other

Global High Precision Cylindrical Grinder Market, Segmentation by Grinding Capability:

- External-only Cylindrical Grinder
- Universal Cylindrical Grinder

Global High Precision Cylindrical Grinder Market, Segmentation by Grinding Length:

- ≤500 mm
- 500-1,500 mm
- 1,500-3,000 mm
- ≥3,000 mm

Global High Precision Cylindrical Grinder Market, Segmentation by Application:

- Aerospace
- Automobile
- Bearing
- Military

other

Companies Profiled:

DANOBAT

Campbell Grinder

SHIGIYA Machinery Works

Taiyo Koki

Okamoto Machine Tool Works

EMAG

Bourn & Koch

JTEKT

ZIERSCH

Nidec Corporation

Jainnher Machine

Palmary Machinery

Yuhuan Cnc Machine Tool

Wuxi Jiake Machinery

Key Questions Answered:

1. How big is the global High Precision Cylindrical Grinder market?
2. What is the demand of the global High Precision Cylindrical Grinder market?
3. What is the year over year growth of the global High Precision Cylindrical Grinder market?

4. What is the production and production value of the global High Precision Cylindrical Grinder market?
5. Who are the key producers in the global High Precision Cylindrical Grinder market?
6. What are the growth factors driving the market demand?

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