

# Global CNC External Cylindrical Grinding Machine Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CNC External Cylindrical Grinding Machine market size is expected to reach \$ 1856 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global CNC External Cylindrical Grinding Machine production reached approximately 5400 units, with an average global market price of around US\$250k per unit.

A CNC external cylindrical grinding machine is a high-precision CNC grinder designed to finish external surfaces such as outside diameters, cylindrical and tapered shafts, stepped diameters, shoulders, and in some cases end faces. Under CNC control, a high-speed grinding wheel removes material on the workpiece's outer surface to achieve tight tolerances and high surface quality. Featuring rigid machine structures, precision feeds, and measurement/feedback systems, it delivers micron-level accuracy and consistent results in production environments. CNC external grinders are widely used for finishing shafts and rotating components such as automotive crankshafts/camshafts, gear shafts, bearing fit surfaces, hydraulic piston rods, and aerospace precision shafts. Upstream for CNC external cylindrical grinders includes machine bases and critical functional modules: rigid cast/welded beds, grinding spindles/motorized spindles and spindle bearings, workhead and tailstock assemblies, ball screws and linear guides, CNC controllers and servo drives, metrology and feedback devices (linear scales and in-process probes), grinding wheels and dressing systems, coolant/filtration units, and lubrication/sealing materials. Representative upstream suppliers include THK and HIWIN (linear motion), NSK and SKF (bearings), Siemens, FANUC, and Mitsubishi (CNC and servo systems), and Norton (Saint-Gobain) and Tyrolit (abrasives and grinding wheels). Downstream demand comes from bearing manufacturing, automotive and new-energy drivetrains, construction machinery and hydraulics/pneumatics, aerospace, rail, industrial motors and gearboxes. Typical end users include SKF,

Schaeffler, Bosch, ZF, Dana, Parker Hannifin, and Honeywell, where external grinding ensures critical fit surfaces and rotating parts meet requirements for diameter accuracy, roundness, and surface finish?directly impacting component life and system reliability.

The CNC external cylindrical grinding machine market is advancing along two major paths: rising precision requirements and accelerating adoption of multifunction integration and automation. As industries such as automotive and new-energy drivetrains, precision bearings, hydraulic transmissions, robotics, and industrial automation demand tighter tolerances, higher consistency, and better surface integrity for shafts and rotating components, external grinding remains a critical finishing process for key fit surfaces. Technology trends include rigid and thermally stable designs, high-speed motorized spindles and higher wheel speeds, in-process measurement with closed-loop compensation, smarter process parameter optimization, and flexible automation cells that integrate robotic loading/unloading with gauging, cleaning, or marking. Meanwhile, more dedicated machines and line solutions tailored to crankshafts, camshafts, and gear shafts are pushing the market from standalone equipment toward system-level deliveries. Growth is driven by high-end manufacturing upgrades, higher reliability expectations, productivity and cost-efficiency initiatives, and localization/alternative sourcing of high-performance grinding equipment. Headwinds include heavy reliance on critical components and precision assembly, long development and validation cycles, higher application engineering and commissioning costs, and the cyclical nature of capital spending in downstream industries. In addition, grinding demands robust expertise in wheel dressing, coolant filtration, vibration control, and thermal error management?without strong process and service capability, competitiveness and customer stickiness can be constrained.

This report studies the global CNC External Cylindrical Grinding Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CNC External Cylindrical Grinding Machine 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 External Cylindrical Grinding Machine that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global CNC External Cylindrical Grinding Machine total production and demand, 2021-2032, (Units)

Global CNC External Cylindrical Grinding Machine total production value, 2021-2032, (USD Million)

Global CNC External Cylindrical Grinding Machine production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global CNC External Cylindrical Grinding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: CNC External Cylindrical Grinding Machine domestic production, consumption, key domestic manufacturers and share

Global CNC External Cylindrical Grinding Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global CNC External Cylindrical Grinding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global CNC External Cylindrical Grinding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global CNC External Cylindrical Grinding Machine 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 Okuma, Haas Automation, EMAG, Cormak, DMG MORI, Palmary Machinery, Tsugami, Precision Surfacing Solutions, Danobat, Blohm Maschinenbau, 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 External Cylindrical Grinding Machine 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 External Cylindrical Grinding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CNC External Cylindrical Grinding Machine Market, Segmentation by Type:

Six Axis

Four Axis

Others

Global CNC External Cylindrical Grinding Machine Market, Segmentation Automation Level:

Fully Automated

Semi-Automatic

Global CNC External Cylindrical Grinding Machine Market, Segmentation Spindle Structure:

Single Grinding Wheel

Double Grinding Wheel

Multiple Grinding Wheels

Global CNC External Cylindrical Grinding Machine Market, Segmentation by Application:

Aerospace

Automotive

Marine

Railways

Oil&Gas

**Companies Profiled:**

Okuma

Haas Automation

EMAG

Cormak

DMG MORI

Palmary Machinery

Tsugami

Precision Surfacing Solutions

Danobat

Blohm Maschinenbau

Fritz Studer

Fair Friend Group

IRINOKIKO

JTEKT Machinery

AZ Spa

Okamoto Machine Tool Works

Micron Machinery

Meccanica Nova

NACHI-FUJIKOSHI

Jainnher

Kellenberger

Starrag Group

**Key Questions Answered:**

1. How big is the global CNC External Cylindrical Grinding Machine market?
2. What is the demand of the global CNC External Cylindrical Grinding Machine market?
3. What is the year over year growth of the global CNC External Cylindrical Grinding Machine market?
4. What is the production and production value of the global CNC External Cylindrical Grinding Machine market?
5. Who are the key producers in the global CNC External Cylindrical Grinding Machine market?
6. What are the growth factors driving the market demand?

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