

Global PCD Tool Grinding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PCD Tool Grinding Machine market size is expected to reach \$ 449 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

PCD tool grinding machines are precision grinding systems specifically designed for processing polycrystalline diamond (PCD) cutting tools. Unlike conventional grinding machines for carbide or HSS tools, PCD grinders require higher rigidity, specialized diamond grinding wheels, and advanced cooling systems due to PCD's extreme hardness (second only to natural diamond). Key machine types include manual PCD grinders (entry-level for regrinding services), semi-automatic PCD tool grinders, and fully automatic CNC PCD grinding centers (with 4-5 axis capabilities). These machines perform multiple operations including fluting, clearance grinding, end gashing, and edge preparation on PCD inserts, end mills, drills, reamers, and step tools. Common applications cover PCD-tipped cutting tools for automotive (engine and transmission components), aerospace (composite machining), woodworking (panel sizing), and general metalworking industries. Emerging technologies include hybrid machines combining grinding with wire EDM to process complex PCD geometries and micro PCD tools with diameters down to 0.2-0.3mm. From a value chain perspective, upstream includes precision ball screw and linear guide suppliers, high-frequency spindle manufacturers, and diamond grinding wheel producers; midstream involves machine assembly, CNC system integration, and quality testing; downstream demand spans cutting tool manufacturers, tool regrinding service providers, and in-house tool rooms of automotive/aerospace manufacturers. In 2025, the average selling price is approximately US\$68,500 per unit, global sales volume is about 4.4k units, and gross margins generally range from 20% to 30%, driven by spindle precision requirements, CNC system costs, and application-specific customization needs.

The PCD tool grinding machine market is experiencing steady growth driven by expanding applications of PCD cutting tools across automotive, aerospace, and woodworking industries, coupled with the increasing complexity of PCD tool geometries requiring advanced grinding solutions.

Shift Toward Fully Automated and Multi-Function Machines

The industry is witnessing a clear transition from manual and semi-automatic machines to fully automated CNC grinding centers. End users increasingly require machines capable of unattended operation, reducing labor costs and improving production consistency. Hybrid machines that combine grinding with wire EDM technology are gaining traction, allowing manufacturers to process complex PCD tool geometries—such as tools with PCD blades through the center and solid brazed PCD tips—that cannot be economically ground by conventional methods.

Advancements in Micro PCD Tool Grinding

The growing demand for miniaturization in electronics, medical devices, and precision engineering has created new opportunities for micro PCD tools. Modern grinding machines can now produce tools with diameters as small as 0.2-0.3mm using specialized steady rest systems. These micro tools require extremely high precision, with surface finishes of Ra0.05µm and edge radii of 1.5µm, pushing the boundaries of grinding technology.

Productivity Gains and Cycle Time Reduction

End users are increasingly focused on reducing production cycle times and minimizing machine setup requirements. Hybrid grinding and erosion machines have demonstrated dramatic time savings, with documented reductions of over 70% in cycle times for specific PCD tool operations compared to traditional multi-machine processes. The ability to combine multiple operations—such as grinding tool diameter, wire eroding, and grinding drill points—on a single machine eliminates setup changes and reduces work-in-progress.

This report studies the global PCD Tool Grinding Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PCD Tool

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 PCD Tool Grinding Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PCD Tool Grinding Machine total production and demand, 2021-2032, (Units)

Global PCD Tool Grinding Machine total production value, 2021-2032, (USD Million)

Global PCD Tool Grinding Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PCD Tool Grinding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PCD Tool Grinding Machine domestic production, consumption, key domestic manufacturers and share

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

Global PCD Tool Grinding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global PCD Tool Grinding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PCD Tool 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 VOLLMER Werke Maschinenfabrik GmbH, WALTER Maschinenbau GmbH, KANEHIRA Co., Ltd., Rush Machinery, Inc., FARMAN, HIKARI KIKAI SEISAKUSHO Co., Ltd., Lach Diamond Inc., Beijing Demina Precision Machinery Co., Ltd., CHN-TOP Sci & Tech Co., Ltd., Shouzuang Precision Machinery Co., Ltd., 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 PCD Tool Grinding Machine 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 PCD Tool Grinding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PCD Tool Grinding Machine Market, Segmentation by Type:

Steel (Galvanized, Weathering Steel)

Aluminum

Copper

Zinc

Global PCD Tool Grinding Machine Market, Segmentation by Workpiece Size Capacity:

Micro (
Standard (3-20 mm diameter)

Large (> 20 mm diameter)

Global PCD Tool Grinding Machine Market, Segmentation by Number of Axes:

2-3 Axis PCD Grinder

4-Axis CNC PCD Grinder

5-Axis CNC PCD Grinding Center

Global PCD Tool Grinding Machine Market, Segmentation by Application:

Direct Sales

Indirect Sales

Companies Profiled:

VOLLMER Werke Maschinenfabrik GmbH

WALTER Maschinenbau GmbH

KANEHIRA Co., Ltd.

Rush Machinery, Inc.

FARMAN

HIKARI KIKAI SEISAKUSHO Co., Ltd.

Lach Diamond Inc.

Beijing Demina Precision Machinery Co., Ltd.

CHN-TOP Sci & Tech Co., Ltd.

Shouzuang Precision Machinery Co., Ltd.

Henan Mo'ao Superhard Materials Co., Ltd.

Jiangxi Geqi Grinding Technology Co., Ltd.

MYTECH

Key Questions Answered:

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

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