

Global CVD Diamond Coated Tools Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CVD Diamond Coated Tools market size is expected to reach \$ 661 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

CVD Diamond Coated Toolss are high-performance cutting tools that use cemented carbide (mainly tungsten-cobalt alloys) as a substrate and grow a pure diamond film on its surface using chemical vapor deposition (CVD) technology. These tools perfectly retain the ultimate properties of natural diamond and overcome the limitations of traditional polycrystalline diamond (PCD) tools in machining shapes.

The upstream components of CVD diamond-coated cutting tools mainly include ultrafine-grained cemented carbide rods or insert substrates, tungsten-cobalt cemented carbide powder, CVD deposition gases such as methane/hydrogen, diamond seed crystals, chemicals for cobalt removal and surface activation, diamond grinding wheels, and precision testing consumables. The cemented carbide substrate determines the tool's rigidity, chipping resistance, and edge retention; the CVD gas source and deposition process determine the coating purity, thickness, grain structure, and adhesion; and surface pretreatment directly affects the ease with which the diamond layer peels off. Global sales are projected to reach approximately 13.5 million units by 2025, with an average global price of approximately US\$25-40 per unit. The gross profit margin for major manufacturers in the industry is estimated at 35%-45%.

The growth of CVD Diamond Coated Tools is primarily driven by demand in precision machining of graphite electrodes, aerospace composite materials, lightweight aluminum alloy parts for new energy vehicles, and the processing of ceramic green bodies and reinforced plastics. Compared to ordinary cemented carbide tools, they offer longer

lifespan, lower tool change frequency, and better machining stability in highly abrasive materials. Compared to PCD tools, they can cover a wider range of small diameters, complex cutting edges, and batch production specifications, offering greater application flexibility. The industry's obstacles lie in the high barriers to entry for CVD deposition equipment and processes. Coating adhesion, cutting edge sharpness, thickness uniformity, and cobalt removal from the substrate all affect product lifespan. Furthermore, these tools are unsuitable for machining materials such as steel, stainless steel, and titanium alloys, which are prone to reacting with carbon or bonding at high temperatures. The future market will likely focus on high-speed graphite milling, low-layer machining of composite materials, small-diameter precision tools, and non-standard complex tools.

This report studies the global CVD Diamond Coated Tools production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CVD Diamond Coated Tools 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 CVD Diamond Coated Tools that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CVD Diamond Coated Tools total production and demand, 2021-2032, (K Units)

Global CVD Diamond Coated Tools total production value, 2021-2032, (USD Million)

Global CVD Diamond Coated Tools production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global CVD Diamond Coated Tools consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: CVD Diamond Coated Tools domestic production, consumption, key domestic manufacturers and share

Global CVD Diamond Coated Tools production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global CVD Diamond Coated Tools production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global CVD Diamond Coated Tools production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global CVD Diamond Coated Tools 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 Harvey Tool, Mitsubishi Materials, OSG, NS Tool, MOLDINO Tool Engineering, Kyocera, Sumitomo Electric, Union Tool, Sandvik Coromant, Seco Tools, 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 CVD Diamond Coated Tools market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 CVD Diamond Coated Tools Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CVD Diamond Coated Tools Market, Segmentation by Type:

Milling

Hole Machining

Turning and Parting

Global CVD Diamond Coated Tools Market, Segmentation by Coating Structure:

Microcrystalline Diamond Coating

Nanocrystalline Diamond Coating

Multilayer Composite Diamond Coating

Global CVD Diamond Coated Tools Market, Segmentation by Head Structure:

Flat Head

Ball Head

Round Nose

Other

Global CVD Diamond Coated Tools Market, Segmentation by Application:

Graphite Electrodes

Carbon Fiber Composites

High-Silicon Aluminum Alloys

Engineering Plastics

Others

Companies Profiled:

Harvey Tool

Mitsubishi Materials

OSG

NS Tool

MOLDINO Tool Engineering

Kyocera

Sumitomo Electric

Union Tool

Sandvik Coromant

Seco Tools

CERATIZIT

Telcon Diamond

Crystallume

CVD Diamond Corporation

Beijing Worldia Diamond Tools

Xiamen Golden Egret Special Alloy

Key Questions Answered:

1. How big is the global CVD Diamond Coated Tools market?
2. What is the demand of the global CVD Diamond Coated Tools market?
3. What is the year over year growth of the global CVD Diamond Coated Tools market?

4. What is the production and production value of the global CVD Diamond Coated Tools market?
5. Who are the key producers in the global CVD Diamond Coated Tools market?
6. What are the growth factors driving the market demand?

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