

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

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Abstracts

The global CVD Diamond Coated End Mill market size is expected to reach \$ 199 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

CVD Diamond Coated End Mills are high-performance milling tools with a pure diamond film grown on the surface of a cemented carbide substrate using chemical vapor deposition (CVD) technology. They combine the strength and toughness of cemented carbide with the ultra-high hardness of diamond, making them the preferred tool for machining high-hardness, highly abrasive non-metallic materials.

The upstream mainly includes ultrafine-grained cemented carbide rods, tungsten-cobalt-based cemented carbide substrates, CVD deposition gas sources such as methane/hydrogen, diamond micron powder or seed crystals, tool grinding wheels, pretreatment chemicals, and precision testing consumables. The cemented carbide substrate determines the tool's rigidity, chip resistance, and edge retention; the CVD deposition process determines the coating thickness, adhesion, grain structure, and wear life; and edge pretreatment and post-treatment affect sharpness, chip removal, and surface quality. The midstream includes tool design, grinding shaping, and CVD diamond coating deposition.

Global sales are projected to reach approximately 2.1 million units by 2025, with an average price of approximately US\$55?80 per unit. The gross profit margin for major manufacturers in the industry is estimated at approximately 35%?45%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global CVD Diamond Coated End Mill 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 Hardmetal, 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 End Mill 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 End Mill Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CVD Diamond Coated End Mill Market, Segmentation by Type:

CVD Thin Film Coating

CVD Thick Film Coating

Global CVD Diamond Coated End Mill Market, Segmentation by Number of Blades:

2 Blades

3 Blades

4 Blades

Other

Global CVD Diamond Coated End Mill Market, Segmentation by Head Structure:

Flat End Mills

Ball Nose End Mills

Corner Radius End Mills

Other

Global CVD Diamond Coated End Mill 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 Hardmetal

Union Tool

Sandvik Coromant

Seco Tools

CERATIZIT

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 End Mill market?
2. What is the demand of the global CVD Diamond Coated End Mill market?
3. What is the year over year growth of the global CVD Diamond Coated End Mill market?
4. What is the production and production value of the global CVD Diamond Coated End Mill market?
5. Who are the key producers in the global CVD Diamond Coated End Mill market?
6. What are the growth factors driving the market demand?

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