

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

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Abstracts

The global Diamond Coated Drills market size is expected to reach \$ 86.32 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Diamond coated drills are high-performance, precision cutting tools manufactured by depositing a layer of microcrystalline diamond (MCD), nanocrystalline diamond (NCD), or composite diamond film onto an ultra-fine-grained cemented carbide (tungsten steel) substrate using Chemical Vapor Deposition (CVD) or other advanced coating processes. Diamond coatings offer extreme hardness, excellent wear resistance, a low coefficient of friction, high thermal conductivity, and superior chemical stability; these properties significantly reduce wear and cutting temperatures during the drilling process, improve hole wall quality, dimensional accuracy, and machining consistency, and substantially extend the service life of the drill bits.

The industry chain comprises three main segments: upstream raw materials and core equipment; midstream drill bit manufacturing and diamond coating processing; and downstream applications in precision micro-hole machining. The upstream segment includes ultra-fine-grained cemented carbide (tungsten carbide, cobalt powder, etc.), CVD diamond deposition precursors (methane, hydrogen, etc.), diamond seed crystals, precision grinding wheels, PVD/CVD coating equipment, CNC grinding machines, laser inspection systems, and high-precision measuring instruments; among these, the ultra-fine cemented carbide substrate, CVD diamond deposition technology, and precision grinding equipment are the fundamental factors determining product performance. The midstream segment produces diamond-coated drill bits through processes such as cemented carbide rod machining, drill tip forming, precision cutting-edge grinding, CVD diamond coating, surface treatment, inspection, and quality control; core competitiveness is reflected in key metrics such as coating adhesion strength, coating

uniformity, cutting-edge precision, wear resistance, tool life, and machining consistency. Downstream applications primarily span sectors including PCB manufacturing, advanced semiconductor packaging, consumer electronics, new energy vehicles (NEVs), aerospace, satellite communications, and precision electronics manufacturing.

In 2025, the global sales volume of diamond coated drills is projected to reach 24 million units, with a production capacity of approximately 34 million units; the average selling price is estimated at \$1.76 per unit, and the average gross profit margin ranges from 40% to 50%.

Diamond coated drill technology continues to evolve toward the use of ultra-fine-grained cemented carbide substrates, nanocrystalline diamond (NCD), microcrystalline diamond (MCD), multilayer composite diamond coatings, and high-adhesion CVD deposition techniques; by optimizing coating thickness, grain size, and interfacial bonding properties, the wear resistance, chipping resistance, and machining stability of these tools are continuously enhanced. Meanwhile, the global semiconductor, advanced packaging, high-end PCB, and aerospace industries continue to benefit from policy support, with nations actively promoting the localization of electronics manufacturing, high-end equipment, and key materials?thereby creating a favorable industrial environment for the market of high-performance diamond-coated tools. Driven by ongoing advancements in glass substrate packaging, advanced electronic materials, and intelligent manufacturing, the technological upgrading and industrialization of diamond-coated drill bits are accelerating further.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Diamond Coated Drills 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 Union Tool, Dingtai High-Tech, Jinzhou Precision, Topoint Technology, Mitsubishi Materials, Kyocera, OSG Corporation, Xiazhi Technology, Huilian Electronics, Worldia, 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 Diamond Coated Drills 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 Diamond Coated Drills Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond Coated Drills Market, Segmentation by Type:

Single-Layer Diamond Coated Drill

Composite Diamond Coated Drill

Global Diamond Coated Drills Market, Segmentation by Coating Thickness:

? 10 ? m

10-20 ? m

?20 ? m

Global Diamond Coated Drills Market, Segmentation by Aperture Size:

?0.2mm

0.2-0.45mm

?0.45mm

Global Diamond Coated Drills Market, Segmentation by Application:

PCB Manufacturing

Semiconductors

Medical Equipment

Others

Companies Profiled:

Union Tool

Dingtai High-Tech

Jinzhou Precision

Topoint Technology

Mitsubishi Materials

Kyocera

OSG Corporation

Xiazhi Technology

Huilian Electronics

Worldia

Sifangda

Key Questions Answered:

1. How big is the global Diamond Coated Drills market?
2. What is the demand of the global Diamond Coated Drills market?
3. What is the year over year growth of the global Diamond Coated Drills market?
4. What is the production and production value of the global Diamond Coated Drills

market?

5. Who are the key producers in the global Diamond Coated Drills market?

6. What are the growth factors driving the market demand?

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