

Global CVD Diamond Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global CVD Diamond market size will reach 528.67 Million USD in 2025 and is projected to reach 922.02 Million USD by 2032, with a CAGR of 8.27% (2025-2032). Notably, the China CVD Diamond market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Chemical Vapor Deposition (CVD) diamond is a synthetic diamond produced through a specialized manufacturing process. In CVD diamond production, a mixture of hydrogen and carbon-containing gases is introduced into a chamber at high temperatures. The gases decompose, and carbon atoms are deposited on a substrate, such as a diamond seed or a wafer, layer by layer, forming a diamond crystal structure. The CVD process allows for the growth of high-quality diamonds with controlled size, shape, and purity. CVD diamonds possess similar properties to natural diamonds, including exceptional hardness, thermal conductivity, and optical transparency. They find applications in various industries, such as electronics, cutting tools, optics, and gemstones. CVD diamond technology has significantly expanded the availability and accessibility of diamonds for industrial and commercial use, providing an alternative to naturally occurring diamonds with unique engineering and manufacturing advantages.

The major global manufacturers of CVD Diamond include Element Six, Ila Technologies, Sumitomo Electric, Morgan, ADT, SP3, Hebei Plasma, Diamond

Materials, EDP, DDK, Beijing Worldia, Scio Diamond, Applied Diamond, Heyaru Group, BetterThanDiamond, Jingzuan, Huanghe Whirlwind, UniDiamond, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of CVD Diamond. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global CVD Diamond market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the CVD Diamond market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of CVD Diamond industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of CVD Diamond Include:

Element Six

Ila Technologies

Sumitomo Electric

Morgan

ADT

SP3

Hebei Plasma

Diamond Materials

EDP

DDK

Beijing Worldia

Scio Diamond

Applied Diamond

Heyaru Group

BetterThanDiamond

Jingzuan

Huanghe Whirlwind

UniDiamond

CVD Diamond Product Segment Include:

Rough CVD Diamond

Polished CVD Diamond

CVD Diamond Product Application Include:

Machine & Cutting Tools

Thermal Applications

Electrochemical Applications

Gem Segment

Others

Chapter Scope

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