

Global PCD Market Growth 2026-2032

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Abstracts

The global PCD market size is predicted to grow from US\$ 1226 million in 2025 to US\$ 2144 million in 2032; it is expected to grow at a CAGR of 8.1% from 2026 to 2032.

Global PCD diamond sales reached 31.79 million pieces in 2025, with an average price of US\$39.42 per piece.

PCD diamond, also known as polycrystalline diamond or sintered diamond, is a composite superhard material made by sintering diamond microparticles (particle size ranging from nanometers to hundreds of micrometers) with a metal binder (mainly cobalt (Co), acting as a catalyst and binder) under high temperature and high pressure (HPHT, 5.0-6.0 GPa, 1600?). Adjacent diamond particles are bonded by C-C chemical bonds, forming a coherent polycrystalline structure, combining the extremely high hardness of diamond with the toughness of metal. PCD hardness can reach 8000 HV, approximately 8-12 times that of cemented carbide, and it exhibits excellent wear resistance, but it can only be used to process non-ferrous materials (such as aluminum alloys, copper, plastics, and wood).

The supply of raw materials for PCD diamond is significantly dependent on superhard materials and highly technology-intensive, resulting in a cost structure that varies greatly depending on quality grade. Raw material costs account for 40-50% of the total cost, with diamond micron powder accounting for the largest share (approximately 30-35%). High-purity, high-strength synthetic diamond micron powder (particle size 1-30?m) is required, priced at approximately 0.5-2 yuan/carats. Metal binders (cobalt powder, nickel powder, etc.) account for 10-15%, with cobalt powder price fluctuations directly impacting costs. Energy and equipment costs account for 25-35%. HPHT sintering requires achieving 5-6 GPa high pressure and 1600? high temperature in a six-sided or two-sided press, resulting in huge equipment investment (single press costing several million yuan) and extremely high energy consumption, with significant costs for

electricity and graphite heating elements. Notably, synthesizing one batch of PCD composite sheets takes 10-20 hours, with electricity costs accounting for over 30% of manufacturing costs. Manufacturing costs account for approximately 20-25% of the total cost, including diamond micron powder pretreatment (purification, grading), molding, sintering, post-treatment (grinding, polishing, cutting), and tool sharpening. Sharpening PCD tools requires specialized diamond wheels and precision CNC grinding machines, making the process extremely difficult. Furthermore, because PCD's hardness is second only to natural diamond, its processing can only utilize diamond wheel grinding or electrical discharge machining (EDM), resulting in low efficiency and high wheel wear, further increasing manufacturing costs. Quality control and testing costs account for 5-10%, requiring the use of scanning electron microscopy (SEM) and X-ray diffraction (XRD) to inspect diamond particle size distribution, binder uniformity, and porosity, and to test performance indicators such as hardness, wear resistance, and thermal stability.

LP Information, Inc. (LPI) ' newest research report, the "PCD Industry Forecast" looks at past sales and reviews total world PCD sales in 2025, providing a comprehensive analysis by region and market sector of projected PCD sales for 2026 through 2032. With PCD sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PCD industry.

This Insight Report provides a comprehensive analysis of the global PCD landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PCD portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PCD market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PCD and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PCD.

This report presents a comprehensive overview, market shares, and growth opportunities of PCD market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PDSs

PDCs

Segmentation by Diamond Grain Size:

Cobalt-based

Silicon-based

Ceramic-based

Segmentation by Application:

Oil & Gas & Mining

Automotive Industry

Aerospace Industry

Timber Industry

Electronics & Semiconductors

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Element Six

Hyperion Materials & Technologies

ILJIN Diamond

ChampionX (US Synthetic)

Huanghe Whirlwind

CR GEMS

SF Diamond

Henan Yalong Diamond

New Asia Superhard

Haimingrun

Henan Jingrui New Material

ChongQing Best Cutter

MegaDiamond

Key Questions Addressed in this Report

What is the 10-year outlook for the global PCD market?

What factors are driving PCD market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PCD market opportunities vary by end market size?
How does PCD break out by Type, by Application?

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