

Global Polycrystalline Diamond Compact Market Growth 2026-2032

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Abstracts

The global Polycrystalline Diamond Compact market size is predicted to grow from US\$ 965 million in 2025 to US\$ 1662 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

Global PDC sales reached 22.72 million units in 2025, with an average price of US\$43.41 per unit.

Polycrystalline diamond compact (PDC) materials are made by high pressure and high temperature (HPHT) technology. PDC materials have been widely used in several industries. Wear resistance is a key material property that has long been pursued for its valuable industrial applications.

The supply of raw materials for PDC exhibits a significant dependence on superhard materials and is highly technology-intensive, resulting in a cost structure that varies greatly depending on quality grade. Raw material costs account for 45-55% 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 2-30µm) is required, priced at approximately 0.5-2 yuan/carat. The cemented carbide matrix (WC-Co, containing 15% cobalt) accounts for 10-15%, with fluctuations in the prices of tungsten and cobalt powder directly impacting costs. Metal binders (cobalt powder, nickel powder, etc.) account for 5-10%. Energy and equipment costs account for 25-35%. HPHT sintering requires achieving 5-7 GPa high pressure and 1350-1500°C high temperature in a six-sided or two-sided press, resulting in huge equipment investment (single press costing millions of yuan) and extremely high energy consumption, with significant costs for electricity and graphite heating elements. Synthesizing one batch of PDC 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 (shaping, purification, and grading to ensure good roundness and reasonable particle size distribution), molding, sintering, post-processing (grinding, polishing, and cutting), and testing. The interfacial bonding quality between the diamond layer and the cemented carbide matrix is ??crucial, requiring control of residual stress (gradient structures can reduce residual stress by 62%-70%). Quality control and testing costs account for 5-10%, requiring the use of SEM, XRD, and Raman spectroscopy to detect diamond particle size distribution, binder uniformity, interfacial bonding strength, and residual stress, as well as testing performance indicators such as hardness (Knoop hardness 6.5-7 ? 10? MPa), wear resistance, and impact toughness.

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

This Insight Report provides a comprehensive analysis of the global Polycrystalline Diamond Compact 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 Polycrystalline Diamond Compact portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polycrystalline Diamond Compact market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polycrystalline Diamond Compact 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 Polycrystalline Diamond Compact.

This report presents a comprehensive overview, market shares, and growth opportunities of Polycrystalline Diamond Compact market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Color

Transparent

Segmentation by Binder Type:

Cobalt-based

Silicon-based

Other

Segmentation by Diamond Particle Size:

30?m

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

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 Polycrystalline Diamond Compact market?

What factors are driving Polycrystalline Diamond Compact market growth, globally and by region?

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

How do Polycrystalline Diamond Compact market opportunities vary by end market size?

How does Polycrystalline Diamond Compact break out by Type, by Application?

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