

# Global Polycrystalline Diamond Compact Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Polycrystalline Diamond Compact market size is expected to reach \$ 1704 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Polycrystalline Diamond Compact production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Polycrystalline Diamond Compact total production and demand, 2021-2032, (K Pcs)

Global Polycrystalline Diamond Compact total production value, 2021-2032, (USD Million)

Global Polycrystalline Diamond Compact production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Polycrystalline Diamond Compact consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Polycrystalline Diamond Compact domestic production, consumption, key domestic manufacturers and share

Global Polycrystalline Diamond Compact production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Polycrystalline Diamond Compact production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Polycrystalline Diamond Compact production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Polycrystalline Diamond Compact 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 Element Six, ILJIN Diamond, ChampionX (US Synthetic), Huanghe Whirlwind, CR GEMS, SF Diamond, Henan Yalong Diamond, New Asia Superhard, Haimingrun, Henan Jingrui New Material, 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 Polycrystalline Diamond Compact market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Polycrystalline Diamond Compact Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Polycrystalline Diamond Compact Market, Segmentation by Type:

Color

Transparent

## Global Polycrystalline Diamond Compact Market, Segmentation by Binder Type:

Cobalt-based

Silicon-based

Other

## Global Polycrystalline Diamond Compact Market, Segmentation by Diamond Particle Size:

30?m

## Global Polycrystalline Diamond Compact Market, Segmentation by Application:

Oil & Gas & Mining

Automotive Industry

Aerospace Industry

Timber Industry

Electronics & Semiconductors

Other

## Companies Profiled:

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 Answered:**

1. How big is the global Polycrystalline Diamond Compact market?
2. What is the demand of the global Polycrystalline Diamond Compact market?
3. What is the year over year growth of the global Polycrystalline Diamond Compact market?
4. What is the production and production value of the global Polycrystalline Diamond Compact market?
5. Who are the key producers in the global Polycrystalline Diamond Compact market?
6. What are the growth factors driving the market demand?

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