

Global PCD Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PCD market size is expected to reach \$ 2196 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

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/carat. 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.

This report studies the global PCD production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PCD total production and demand, 2021-2032, (K Pcs)

Global PCD total production value, 2021-2032, (USD Million)

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

Global PCD consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: PCD domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global PCD 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, Hyperion Materials & Technologies, ILJIN Diamond, ChampionX (US Synthetic), Huanghe Whirlwind, CR GEMS, SF Diamond, Henan Yalong Diamond, New Asia Superhard, Haimingrun, 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 PCD 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 PCD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PCD Market, Segmentation by Type:

PDSs

PDCs

Global PCD Market, Segmentation by Diamond Grain Size:

Cobalt-based

Silicon-based

Ceramic-based

Global PCD Market, Segmentation by Application:

Oil & Gas & Mining

Automotive Industry

Aerospace Industry

Timber Industry

Electronics & Semiconductors

Other

Companies Profiled:

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 Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 PCD Introduction
- 1.2 World PCD Supply & Forecast
 - 1.2.1 World PCD Production Value (2021 & 2025 & 2032)
 - 1.2.2 World PCD Production (2021-2032)
 - 1.2.3 World PCD Pricing Trends (2021-2032)
- 1.3 World PCD Production by Region (Based on Production Site)
 - 1.3.1 World PCD Production Value by Region (2021-2032)
 - 1.3.2 World PCD Production by Region (2021-2032)
 - 1.3.3 World PCD Average Price by Region (2021-2032)
 - 1.3.4 North America PCD Production (2021-2032)
 - 1.3.5 Europe PCD Production (2021-2032)
 - 1.3.6 China PCD Production (2021-2032)
 - 1.3.7 Japan PCD Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 PCD Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 PCD Major Market Trends

2 DEMAND SUMMARY

- 2.1 World PCD Demand (2021-2032)
- 2.2 World PCD Consumption by Region
 - 2.2.1 World PCD Consumption by Region (2021-2026)
 - 2.2.2 World PCD Consumption Forecast by Region (2027-2032)
- 2.3 United States PCD Consumption (2021-2032)
- 2.4 China PCD Consumption (2021-2032)
- 2.5 Europe PCD Consumption (2021-2032)
- 2.6 Japan PCD Consumption (2021-2032)
- 2.7 South Korea PCD Consumption (2021-2032)
- 2.8 ASEAN PCD Consumption (2021-2032)
- 2.9 India PCD Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World PCD Production Value by Manufacturer (2021-2026)

- 3.2 World PCD Production by Manufacturer (2021-2026)
- 3.3 World PCD Average Price by Manufacturer (2021-2026)
- 3.4 PCD Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global PCD Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for PCD in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for PCD in 2025
- 3.6 PCD Market: Overall Company Footprint Analysis
 - 3.6.1 PCD Market: Region Footprint
 - 3.6.2 PCD Market: Company Product Type Footprint
 - 3.6.3 PCD Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: PCD Production Value Comparison
 - 4.1.1 United States VS China: PCD Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: PCD Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: PCD Production Comparison
 - 4.2.1 United States VS China: PCD Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: PCD Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: PCD Consumption Comparison
 - 4.3.1 United States VS China: PCD Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: PCD Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based PCD Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based PCD Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers PCD Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers PCD Production (2021-2026)
- 4.5 China Based PCD Manufacturers and Market Share

4.5.1 China Based PCD Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers PCD Production Value (2021-2026)

4.5.3 China Based Manufacturers PCD Production (2021-2026)

4.6 Rest of World Based PCD Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based PCD Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers PCD Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers PCD Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World PCD Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PDSs

5.2.2 PDCs

5.3 Market Segment by Type

5.3.1 World PCD Production by Type (2021-2032)

5.3.2 World PCD Production Value by Type (2021-2032)

5.3.3 World PCD Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DIAMOND GRAIN SIZE

6.1 World PCD Market Size Overview by Diamond Grain Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Diamond Grain Size

6.2.1 Cobalt-based

6.2.2 Silicon-based

6.2.3 Ceramic-based

6.3 Market Segment by Diamond Grain Size

6.3.1 World PCD Production by Diamond Grain Size (2021-2032)

6.3.2 World PCD Production Value by Diamond Grain Size (2021-2032)

6.3.3 World PCD Average Price by Diamond Grain Size (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World PCD Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Oil & Gas & Mining

7.2.2 Automotive Industry

- 7.2.3 Aerospace Industry
- 7.2.4 Timber Industry
- 7.2.5 Electronics & Semiconductors
- 7.2.6 Other
- 7.3 Market Segment by Application
 - 7.3.1 World PCD Production by Application (2021-2032)
 - 7.3.2 World PCD Production Value by Application (2021-2032)
 - 7.3.3 World PCD Average Price by Application (2021-2032)

8 COMPANY PROFILES

- 8.1 Element Six
 - 8.1.1 Element Six Details
 - 8.1.2 Element Six Major Business
 - 8.1.3 Element Six PCD Product and Services
 - 8.1.4 Element Six PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.1.5 Element Six Recent Developments/Updates
 - 8.1.6 Element Six Competitive Strengths & Weaknesses
- 8.2 Hyperion Materials & Technologies
 - 8.2.1 Hyperion Materials & Technologies Details
 - 8.2.2 Hyperion Materials & Technologies Major Business
 - 8.2.3 Hyperion Materials & Technologies PCD Product and Services
 - 8.2.4 Hyperion Materials & Technologies PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 Hyperion Materials & Technologies Recent Developments/Updates
 - 8.2.6 Hyperion Materials & Technologies Competitive Strengths & Weaknesses
- 8.3 ILJIN Diamond
 - 8.3.1 ILJIN Diamond Details
 - 8.3.2 ILJIN Diamond Major Business
 - 8.3.3 ILJIN Diamond PCD Product and Services
 - 8.3.4 ILJIN Diamond PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 ILJIN Diamond Recent Developments/Updates
 - 8.3.6 ILJIN Diamond Competitive Strengths & Weaknesses
- 8.4 ChampionX (US Synthetic)
 - 8.4.1 ChampionX (US Synthetic) Details
 - 8.4.2 ChampionX (US Synthetic) Major Business
 - 8.4.3 ChampionX (US Synthetic) PCD Product and Services

8.4.4 ChampionX (US Synthetic) PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 ChampionX (US Synthetic) Recent Developments/Updates

8.4.6 ChampionX (US Synthetic) Competitive Strengths & Weaknesses

8.5 Huanghe Whirlwind

8.5.1 Huanghe Whirlwind Details

8.5.2 Huanghe Whirlwind Major Business

8.5.3 Huanghe Whirlwind PCD Product and Services

8.5.4 Huanghe Whirlwind PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Huanghe Whirlwind Recent Developments/Updates

8.5.6 Huanghe Whirlwind Competitive Strengths & Weaknesses

8.6 CR GEMS

8.6.1 CR GEMS Details

8.6.2 CR GEMS Major Business

8.6.3 CR GEMS PCD Product and Services

8.6.4 CR GEMS PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 CR GEMS Recent Developments/Updates

8.6.6 CR GEMS Competitive Strengths & Weaknesses

8.7 SF Diamond

8.7.1 SF Diamond Details

8.7.2 SF Diamond Major Business

8.7.3 SF Diamond PCD Product and Services

8.7.4 SF Diamond PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 SF Diamond Recent Developments/Updates

8.7.6 SF Diamond Competitive Strengths & Weaknesses

8.8 Henan Yalong Diamond

8.8.1 Henan Yalong Diamond Details

8.8.2 Henan Yalong Diamond Major Business

8.8.3 Henan Yalong Diamond PCD Product and Services

8.8.4 Henan Yalong Diamond PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Henan Yalong Diamond Recent Developments/Updates

8.8.6 Henan Yalong Diamond Competitive Strengths & Weaknesses

8.9 New Asia Superhard

8.9.1 New Asia Superhard Details

8.9.2 New Asia Superhard Major Business

- 8.9.3 New Asia Superhard PCD Product and Services
- 8.9.4 New Asia Superhard PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.9.5 New Asia Superhard Recent Developments/Updates
- 8.9.6 New Asia Superhard Competitive Strengths & Weaknesses
- 8.10 Haimingrun
 - 8.10.1 Haimingrun Details
 - 8.10.2 Haimingrun Major Business
 - 8.10.3 Haimingrun PCD Product and Services
 - 8.10.4 Haimingrun PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Haimingrun Recent Developments/Updates
 - 8.10.6 Haimingrun Competitive Strengths & Weaknesses
- 8.11 Henan Jingrui New Material
 - 8.11.1 Henan Jingrui New Material Details
 - 8.11.2 Henan Jingrui New Material Major Business
 - 8.11.3 Henan Jingrui New Material PCD Product and Services
 - 8.11.4 Henan Jingrui New Material PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Henan Jingrui New Material Recent Developments/Updates
 - 8.11.6 Henan Jingrui New Material Competitive Strengths & Weaknesses
- 8.12 ChongQing Best Cutter
 - 8.12.1 ChongQing Best Cutter Details
 - 8.12.2 ChongQing Best Cutter Major Business
 - 8.12.3 ChongQing Best Cutter PCD Product and Services
 - 8.12.4 ChongQing Best Cutter PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 ChongQing Best Cutter Recent Developments/Updates
 - 8.12.6 ChongQing Best Cutter Competitive Strengths & Weaknesses
- 8.13 MegaDiamond
 - 8.13.1 MegaDiamond Details
 - 8.13.2 MegaDiamond Major Business
 - 8.13.3 MegaDiamond PCD Product and Services
 - 8.13.4 MegaDiamond PCD Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 MegaDiamond Recent Developments/Updates
 - 8.13.6 MegaDiamond Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 PCD Industry Chain

9.2 PCD Upstream Analysis

9.2.1 PCD Core Raw Materials

9.2.2 Main Manufacturers of PCD Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 PCD Production Mode

9.6 PCD Procurement Model

9.7 PCD Industry Sales Model and Sales Channels

9.7.1 PCD Sales Model

9.7.2 PCD Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World PCD Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World PCD Production Value by Region (2021-2026) & (USD Million)

Table 3. World PCD Production Value by Region (2027-2032) & (USD Million)

Table 4. World PCD Production Value Market Share by Region (2021-2026)

Table 5. World PCD Production Value Market Share by Region (2027-2032)

Table 6. World PCD Production by Region (2021-2026) & (K Pcs)

Table 7. World PCD Production by Region (2027-2032) & (K Pcs)

Table 8. World PCD Production Market Share by Region (2021-2026)

Table 9. World PCD Production Market Share by Region (2027-2032)

Table 10. World PCD Average Price by Region (2021-2026) & (US\$/Pc)

Table 11. World PCD Average Price by Region (2027-2032) & (US\$/Pc)

Table 12. PCD Major Market Trends

Table 13. World PCD Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World PCD Consumption by Region (2021-2026) & (K Pcs)

Table 15. World PCD Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World PCD Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key PCD Producers in 2025

Table 18. World PCD Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key PCD Producers in 2025

Table 20. World PCD Average Price by Manufacturer (2021-2026) & (US\$/Pc)

Table 21. Global PCD Company Evaluation Quadrant

Table 22. World PCD Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and PCD Production Site of Key Manufacturer

Table 24. PCD Market: Company Product Type Footprint

Table 25. PCD Market: Company Product Application Footprint

Table 26. PCD Competitive Factors

Table 27. PCD New Entrant and Capacity Expansion Plans

Table 28. PCD Mergers & Acquisitions Activity

Table 29. United States VS China PCD Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China PCD Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China PCD Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based PCD Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers PCD Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers PCD Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers PCD Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers PCD Production Market Share (2021-2026)

Table 37. China Based PCD Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers PCD Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers PCD Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers PCD Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers PCD Production Market Share (2021-2026)

Table 42. Rest of World Based PCD Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers PCD Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers PCD Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers PCD Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers PCD Production Market Share (2021-2026)

Table 47. World PCD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World PCD Production by Type (2021-2026) & (K Pcs)

Table 49. World PCD Production by Type (2027-2032) & (K Pcs)

Table 50. World PCD Production Value by Type (2021-2026) & (USD Million)

Table 51. World PCD Production Value by Type (2027-2032) & (USD Million)

Table 52. World PCD Average Price by Type (2021-2026) & (US\$/Pc)

Table 53. World PCD Average Price by Type (2027-2032) & (US\$/Pc)

Table 54. World PCD Production Value by Diamond Grain Size, (USD Million), 2021 & 2025 & 2032

Table 55. World PCD Production by Diamond Grain Size (2021-2026) & (K Pcs)

Table 56. World PCD Production by Diamond Grain Size (2027-2032) & (K Pcs)

Table 57. World PCD Production Value by Diamond Grain Size (2021-2026) & (USD Million)

Table 58. World PCD Production Value by Diamond Grain Size (2027-2032) & (USD Million)

Table 59. World PCD Average Price by Diamond Grain Size (2021-2026) & (US\$/Pc)

Table 60. World PCD Average Price by Diamond Grain Size (2027-2032) & (US\$/Pc)

Table 61. World PCD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World PCD Production by Application (2021-2026) & (K Pcs)

Table 63. World PCD Production by Application (2027-2032) & (K Pcs)

Table 64. World PCD Production Value by Application (2021-2026) & (USD Million)

Table 65. World PCD Production Value by Application (2027-2032) & (USD Million)

Table 66. World PCD Average Price by Application (2021-2026) & (US\$/Pc)

Table 67. World PCD Average Price by Application (2027-2032) & (US\$/Pc)

Table 68. Element Six Basic Information, Manufacturing Base and Competitors

Table 69. Element Six Major Business

Table 70. Element Six PCD Product and Services

Table 71. Element Six PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Element Six Recent Developments/Updates

Table 73. Element Six Competitive Strengths & Weaknesses

Table 74. Hyperion Materials & Technologies Basic Information, Manufacturing Base and Competitors

Table 75. Hyperion Materials & Technologies Major Business

Table 76. Hyperion Materials & Technologies PCD Product and Services

Table 77. Hyperion Materials & Technologies PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Hyperion Materials & Technologies Recent Developments/Updates

Table 79. Hyperion Materials & Technologies Competitive Strengths & Weaknesses

Table 80. ILJIN Diamond Basic Information, Manufacturing Base and Competitors

Table 81. ILJIN Diamond Major Business

Table 82. ILJIN Diamond PCD Product and Services

Table 83. ILJIN Diamond PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. ILJIN Diamond Recent Developments/Updates

Table 85. ILJIN Diamond Competitive Strengths & Weaknesses

Table 86. ChampionX (US Synthetic) Basic Information, Manufacturing Base and Competitors

Table 87. ChampionX (US Synthetic) Major Business

- Table 88. ChampionX (US Synthetic) PCD Product and Services
- Table 89. ChampionX (US Synthetic) PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. ChampionX (US Synthetic) Recent Developments/Updates
- Table 91. ChampionX (US Synthetic) Competitive Strengths & Weaknesses
- Table 92. Huanghe Whirlwind Basic Information, Manufacturing Base and Competitors
- Table 93. Huanghe Whirlwind Major Business
- Table 94. Huanghe Whirlwind PCD Product and Services
- Table 95. Huanghe Whirlwind PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Huanghe Whirlwind Recent Developments/Updates
- Table 97. Huanghe Whirlwind Competitive Strengths & Weaknesses
- Table 98. CR GEMS Basic Information, Manufacturing Base and Competitors
- Table 99. CR GEMS Major Business
- Table 100. CR GEMS PCD Product and Services
- Table 101. CR GEMS PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. CR GEMS Recent Developments/Updates
- Table 103. CR GEMS Competitive Strengths & Weaknesses
- Table 104. SF Diamond Basic Information, Manufacturing Base and Competitors
- Table 105. SF Diamond Major Business
- Table 106. SF Diamond PCD Product and Services
- Table 107. SF Diamond PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. SF Diamond Recent Developments/Updates
- Table 109. SF Diamond Competitive Strengths & Weaknesses
- Table 110. Henan Yalong Diamond Basic Information, Manufacturing Base and Competitors
- Table 111. Henan Yalong Diamond Major Business
- Table 112. Henan Yalong Diamond PCD Product and Services
- Table 113. Henan Yalong Diamond PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Henan Yalong Diamond Recent Developments/Updates
- Table 115. Henan Yalong Diamond Competitive Strengths & Weaknesses
- Table 116. New Asia Superhard Basic Information, Manufacturing Base and Competitors
- Table 117. New Asia Superhard Major Business
- Table 118. New Asia Superhard PCD Product and Services
- Table 119. New Asia Superhard PCD Production (K Pcs), Price (US\$/Pc), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. New Asia Superhard Recent Developments/Updates

Table 121. New Asia Superhard Competitive Strengths & Weaknesses

Table 122. Haimingrun Basic Information, Manufacturing Base and Competitors

Table 123. Haimingrun Major Business

Table 124. Haimingrun PCD Product and Services

Table 125. Haimingrun PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Haimingrun Recent Developments/Updates

Table 127. Haimingrun Competitive Strengths & Weaknesses

Table 128. Henan Jingrui New Material Basic Information, Manufacturing Base and Competitors

Table 129. Henan Jingrui New Material Major Business

Table 130. Henan Jingrui New Material PCD Product and Services

Table 131. Henan Jingrui New Material PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Henan Jingrui New Material Recent Developments/Updates

Table 133. Henan Jingrui New Material Competitive Strengths & Weaknesses

Table 134. ChongQing Best Cutter Basic Information, Manufacturing Base and Competitors

Table 135. ChongQing Best Cutter Major Business

Table 136. ChongQing Best Cutter PCD Product and Services

Table 137. ChongQing Best Cutter PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. ChongQing Best Cutter Recent Developments/Updates

Table 139. ChongQing Best Cutter Competitive Strengths & Weaknesses

Table 140. MegaDiamond Basic Information, Manufacturing Base and Competitors

Table 141. MegaDiamond Major Business

Table 142. MegaDiamond PCD Product and Services

Table 143. MegaDiamond PCD Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. MegaDiamond Recent Developments/Updates

Table 145. MegaDiamond Competitive Strengths & Weaknesses

Table 146. Global Key Players of PCD Upstream (Raw Materials)

Table 147. Global PCD Typical Customers

Table 148. PCD Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. PCD Picture

Figure 2. World PCD Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World PCD Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World PCD Production (2021-2032) & (K Pcs)

Figure 5. World PCD Average Price (2021-2032) & (US\$/Pc)

Figure 6. World PCD Production Value Market Share by Region (2021-2032)

Figure 7. World PCD Production Market Share by Region (2021-2032)

Figure 8. North America PCD Production (2021-2032) & (K Pcs)

Figure 9. Europe PCD Production (2021-2032) & (K Pcs)

Figure 10. China PCD Production (2021-2032) & (K Pcs)

Figure 11. Japan PCD Production (2021-2032) & (K Pcs)

Figure 12. PCD Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World PCD Consumption (2021-2032) & (K Pcs)

Figure 15. World PCD Consumption Market Share by Region (2021-2032)

Figure 16. United States PCD Consumption (2021-2032) & (K Pcs)

Figure 17. China PCD Consumption (2021-2032) & (K Pcs)

Figure 18. Europe PCD Consumption (2021-2032) & (K Pcs)

Figure 19. Japan PCD Consumption (2021-2032) & (K Pcs)

Figure 20. South Korea PCD Consumption (2021-2032) & (K Pcs)

Figure 21. ASEAN PCD Consumption (2021-2032) & (K Pcs)

Figure 22. India PCD Consumption (2021-2032) & (K Pcs)

Figure 23. Producer Shipments of PCD by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for PCD Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for PCD Markets in 2025

Figure 26. United States VS China: PCD Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: PCD Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: PCD Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers PCD Production Market Share 2025

Figure 30. China Based Manufacturers PCD Production Market Share 2025

Figure 31. Rest of World Based Manufacturers PCD Production Market Share 2025

Figure 32. World PCD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World PCD Production Value Market Share by Type in 2025

Figure 34. PDSs

Figure 35. PDCs

Figure 36. World PCD Production Market Share by Type (2021-2032)

Figure 37. World PCD Production Value Market Share by Type (2021-2032)

Figure 38. World PCD Average Price by Type (2021-2032) & (US\$/Pc)

Figure 39. World PCD Production Value by Diamond Grain Size, (USD Million), 2021 & 2025 & 2032

Figure 40. World PCD Production Value Market Share by Diamond Grain Size in 2025

Figure 41. Cobalt-based

Figure 42. Silicon-based

Figure 43. Ceramic-based

Figure 44. World PCD Production Market Share by Diamond Grain Size (2021-2032)

Figure 45. World PCD Production Value Market Share by Diamond Grain Size (2021-2032)

Figure 46. World PCD Average Price by Diamond Grain Size (2021-2032) & (US\$/Pc)

Figure 47. Nanocrystalline

Figure 48. Microcrystalline

Figure 49. Coarse Crystalline

Figure 50. World PCD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World PCD Production Value Market Share by Application in 2025

Figure 52. Oil & Gas & Mining

Figure 53. Automotive Industry

Figure 54. Aerospace Industry

Figure 55. Timber Industry

Figure 56. Electronics & Semiconductors

Figure 57. Other

Figure 58. World PCD Production Market Share by Application (2021-2032)

Figure 59. World PCD Production Value Market Share by Application (2021-2032)

Figure 60. World PCD Average Price by Application (2021-2032) & (US\$/Pc)

Figure 61. PCD Industry Chain

Figure 62. PCD Procurement Model

Figure 63. PCD Sales Model

Figure 64. PCD Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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