

Global Polycrystalline Diamond Compact Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Polycrystalline Diamond Compact market size was valued at USD 963.1 million in 2023 and is forecast to a readjusted size of USD 1564.6 million by 2030 with a CAGR of 7.2% during review period.

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.

Oil prices have experienced significant volatility in recent years. Factors such as geopolitical tensions, global supply-demand dynamics, production cuts, and economic conditions impact oil prices. The COVID-19 pandemic, in particular, caused a sharp decline in demand and prices, followed by a gradual recovery as economies reopen and demand picks up. The global energy landscape is undergoing a transition towards cleaner and more sustainable sources of energy. This transition is driven by factors such as climate change concerns, renewable energy advancements, and government policies promoting decarbonization. Oil and gas companies are increasingly diversifying their portfolios to include renewable energy sources and investing in low-carbon technologies. Oil and gas companies are focusing on improving operational efficiency and reducing costs. Technologies such as data analytics, artificial intelligence, and automation are being employed to optimize production, enhance asset performance, and streamline operations. Energy efficiency measures are also being adopted to reduce environmental impact and improve sustainability.

The Global Info Research report includes an overview of the development of the Polycrystalline Diamond Compact industry chain, the market status of Wire Drawing (Color, Transparent), Oil and Gas (Color, Transparent), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Polycrystalline Diamond Compact.

Regionally, the report analyzes the Polycrystalline Diamond Compact markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Polycrystalline Diamond Compact market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Polycrystalline Diamond Compact market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Polycrystalline Diamond Compact industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Ct), revenue generated, and market share of different by Type (e.g., Color, Transparent).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Polycrystalline Diamond Compact market.

Regional Analysis: The report involves examining the Polycrystalline Diamond Compact market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Polycrystalline Diamond Compact market. This may include estimating market growth rates, predicting market demand, and identifying

emerging trends.

The report also involves a more granular approach to Polycrystalline Diamond Compact:

Company Analysis: Report covers individual Polycrystalline Diamond Compact manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Polycrystalline Diamond Compact. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Wire Drawing, Oil and Gas).

Technology Analysis: Report covers specific technologies relevant to Polycrystalline Diamond Compact. It assesses the current state, advancements, and potential future developments in Polycrystalline Diamond Compact areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Polycrystalline Diamond Compact market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Polycrystalline Diamond Compact market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Color

Transparent

Market segment by Application

Wire Drawing

Oil and Gas

Machining

Hardrock Mining

Others

Major players covered

De Beers

Sandvik Hyperion

ILJIN Diamond

Zhongnan Diamond

HUANGHE WHIRLWIND

Sino-crystal Diamond

CR GEMS

SF Diamond

Henan Yalong Diamond

Logan Oil Tools

Grant Prideco

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polycrystalline Diamond Compact product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polycrystalline Diamond Compact, with price, sales, revenue and global market share of Polycrystalline Diamond Compact from 2019 to 2024.

Chapter 3, the Polycrystalline Diamond Compact competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polycrystalline Diamond Compact breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Polycrystalline Diamond Compact market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polycrystalline Diamond Compact.

Chapter 14 and 15, to describe Polycrystalline Diamond Compact sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Polycrystalline Diamond Compact
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Polycrystalline Diamond Compact Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Color
 - 1.3.3 Transparent
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Polycrystalline Diamond Compact Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Wire Drawing
 - 1.4.3 Oil and Gas
 - 1.4.4 Machining
 - 1.4.5 Hardrock Mining
 - 1.4.6 Others
- 1.5 Global Polycrystalline Diamond Compact Market Size & Forecast
 - 1.5.1 Global Polycrystalline Diamond Compact Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Polycrystalline Diamond Compact Sales Quantity (2019-2030)
 - 1.5.3 Global Polycrystalline Diamond Compact Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 De Beers
 - 2.1.1 De Beers Details
 - 2.1.2 De Beers Major Business
 - 2.1.3 De Beers Polycrystalline Diamond Compact Product and Services
 - 2.1.4 De Beers Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 De Beers Recent Developments/Updates
- 2.2 Sandvik Hyperion
 - 2.2.1 Sandvik Hyperion Details
 - 2.2.2 Sandvik Hyperion Major Business
 - 2.2.3 Sandvik Hyperion Polycrystalline Diamond Compact Product and Services
 - 2.2.4 Sandvik Hyperion Polycrystalline Diamond Compact Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Sandvik Hyperion Recent Developments/Updates

2.3 ILJIN Diamond

2.3.1 ILJIN Diamond Details

2.3.2 ILJIN Diamond Major Business

2.3.3 ILJIN Diamond Polycrystalline Diamond Compact Product and Services

2.3.4 ILJIN Diamond Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 ILJIN Diamond Recent Developments/Updates

2.4 Zhongnan Diamond

2.4.1 Zhongnan Diamond Details

2.4.2 Zhongnan Diamond Major Business

2.4.3 Zhongnan Diamond Polycrystalline Diamond Compact Product and Services

2.4.4 Zhongnan Diamond Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Zhongnan Diamond Recent Developments/Updates

2.5 HUANGHE WHIRLWIND

2.5.1 HUANGHE WHIRLWIND Details

2.5.2 HUANGHE WHIRLWIND Major Business

2.5.3 HUANGHE WHIRLWIND Polycrystalline Diamond Compact Product and Services

2.5.4 HUANGHE WHIRLWIND Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 HUANGHE WHIRLWIND Recent Developments/Updates

2.6 Sino-crystal Diamond

2.6.1 Sino-crystal Diamond Details

2.6.2 Sino-crystal Diamond Major Business

2.6.3 Sino-crystal Diamond Polycrystalline Diamond Compact Product and Services

2.6.4 Sino-crystal Diamond Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Sino-crystal Diamond Recent Developments/Updates

2.7 CR GEMS

2.7.1 CR GEMS Details

2.7.2 CR GEMS Major Business

2.7.3 CR GEMS Polycrystalline Diamond Compact Product and Services

2.7.4 CR GEMS Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 CR GEMS Recent Developments/Updates

2.8 SF Diamond

- 2.8.1 SF Diamond Details
- 2.8.2 SF Diamond Major Business
- 2.8.3 SF Diamond Polycrystalline Diamond Compact Product and Services
- 2.8.4 SF Diamond Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 SF Diamond Recent Developments/Updates
- 2.9 Henan Yalong Diamond
 - 2.9.1 Henan Yalong Diamond Details
 - 2.9.2 Henan Yalong Diamond Major Business
 - 2.9.3 Henan Yalong Diamond Polycrystalline Diamond Compact Product and Services
 - 2.9.4 Henan Yalong Diamond Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 Henan Yalong Diamond Recent Developments/Updates
- 2.10 Logan Oil Tools
 - 2.10.1 Logan Oil Tools Details
 - 2.10.2 Logan Oil Tools Major Business
 - 2.10.3 Logan Oil Tools Polycrystalline Diamond Compact Product and Services
 - 2.10.4 Logan Oil Tools Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 Logan Oil Tools Recent Developments/Updates
- 2.11 Grant Prideco
 - 2.11.1 Grant Prideco Details
 - 2.11.2 Grant Prideco Major Business
 - 2.11.3 Grant Prideco Polycrystalline Diamond Compact Product and Services
 - 2.11.4 Grant Prideco Polycrystalline Diamond Compact Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.11.5 Grant Prideco Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: POLYCRYSTALLINE DIAMOND COMPACT BY MANUFACTURER

- 3.1 Global Polycrystalline Diamond Compact Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Polycrystalline Diamond Compact Revenue by Manufacturer (2019-2024)
- 3.3 Global Polycrystalline Diamond Compact Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Polycrystalline Diamond Compact by Manufacturer Revenue (\$MM) and Market Share (%): 2023

- 3.4.2 Top 3 Polycrystalline Diamond Compact Manufacturer Market Share in 2023
- 3.4.2 Top 6 Polycrystalline Diamond Compact Manufacturer Market Share in 2023
- 3.5 Polycrystalline Diamond Compact Market: Overall Company Footprint Analysis
 - 3.5.1 Polycrystalline Diamond Compact Market: Region Footprint
 - 3.5.2 Polycrystalline Diamond Compact Market: Company Product Type Footprint
 - 3.5.3 Polycrystalline Diamond Compact Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Polycrystalline Diamond Compact Market Size by Region
 - 4.1.1 Global Polycrystalline Diamond Compact Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Polycrystalline Diamond Compact Consumption Value by Region (2019-2030)
 - 4.1.3 Global Polycrystalline Diamond Compact Average Price by Region (2019-2030)
- 4.2 North America Polycrystalline Diamond Compact Consumption Value (2019-2030)
- 4.3 Europe Polycrystalline Diamond Compact Consumption Value (2019-2030)
- 4.4 Asia-Pacific Polycrystalline Diamond Compact Consumption Value (2019-2030)
- 4.5 South America Polycrystalline Diamond Compact Consumption Value (2019-2030)
- 4.6 Middle East and Africa Polycrystalline Diamond Compact Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)
- 5.2 Global Polycrystalline Diamond Compact Consumption Value by Type (2019-2030)
- 5.3 Global Polycrystalline Diamond Compact Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)
- 6.2 Global Polycrystalline Diamond Compact Consumption Value by Application (2019-2030)
- 6.3 Global Polycrystalline Diamond Compact Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)

7.2 North America Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)

7.3 North America Polycrystalline Diamond Compact Market Size by Country

7.3.1 North America Polycrystalline Diamond Compact Sales Quantity by Country (2019-2030)

7.3.2 North America Polycrystalline Diamond Compact Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)

8.2 Europe Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)

8.3 Europe Polycrystalline Diamond Compact Market Size by Country

8.3.1 Europe Polycrystalline Diamond Compact Sales Quantity by Country (2019-2030)

8.3.2 Europe Polycrystalline Diamond Compact Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Polycrystalline Diamond Compact Market Size by Region

9.3.1 Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Polycrystalline Diamond Compact Consumption Value by Region (2019-2030)

- 9.3.3 China Market Size and Forecast (2019-2030)
- 9.3.4 Japan Market Size and Forecast (2019-2030)
- 9.3.5 Korea Market Size and Forecast (2019-2030)
- 9.3.6 India Market Size and Forecast (2019-2030)
- 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
- 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)
- 10.2 South America Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)
- 10.3 South America Polycrystalline Diamond Compact Market Size by Country
 - 10.3.1 South America Polycrystalline Diamond Compact Sales Quantity by Country (2019-2030)
 - 10.3.2 South America Polycrystalline Diamond Compact Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Polycrystalline Diamond Compact Market Size by Country
 - 11.3.1 Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa Polycrystalline Diamond Compact Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 Polycrystalline Diamond Compact Market Drivers
- 12.2 Polycrystalline Diamond Compact Market Restraints
- 12.3 Polycrystalline Diamond Compact Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Polycrystalline Diamond Compact and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Polycrystalline Diamond Compact
- 13.3 Polycrystalline Diamond Compact Production Process
- 13.4 Polycrystalline Diamond Compact Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Polycrystalline Diamond Compact Typical Distributors
- 14.3 Polycrystalline Diamond Compact Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Polycrystalline Diamond Compact Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Polycrystalline Diamond Compact Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. De Beers Basic Information, Manufacturing Base and Competitors
- Table 4. De Beers Major Business
- Table 5. De Beers Polycrystalline Diamond Compact Product and Services
- Table 6. De Beers Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. De Beers Recent Developments/Updates
- Table 8. Sandvik Hyperion Basic Information, Manufacturing Base and Competitors
- Table 9. Sandvik Hyperion Major Business
- Table 10. Sandvik Hyperion Polycrystalline Diamond Compact Product and Services
- Table 11. Sandvik Hyperion Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Sandvik Hyperion Recent Developments/Updates
- Table 13. ILJIN Diamond Basic Information, Manufacturing Base and Competitors
- Table 14. ILJIN Diamond Major Business
- Table 15. ILJIN Diamond Polycrystalline Diamond Compact Product and Services
- Table 16. ILJIN Diamond Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. ILJIN Diamond Recent Developments/Updates
- Table 18. Zhongnan Diamond Basic Information, Manufacturing Base and Competitors
- Table 19. Zhongnan Diamond Major Business
- Table 20. Zhongnan Diamond Polycrystalline Diamond Compact Product and Services
- Table 21. Zhongnan Diamond Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Zhongnan Diamond Recent Developments/Updates
- Table 23. HUANGHE WHIRLWIND Basic Information, Manufacturing Base and Competitors
- Table 24. HUANGHE WHIRLWIND Major Business
- Table 25. HUANGHE WHIRLWIND Polycrystalline Diamond Compact Product and

Services

Table 26. HUANGHE WHIRLWIND Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. HUANGHE WHIRLWIND Recent Developments/Updates

Table 28. Sino-crystal Diamond Basic Information, Manufacturing Base and Competitors

Table 29. Sino-crystal Diamond Major Business

Table 30. Sino-crystal Diamond Polycrystalline Diamond Compact Product and Services

Table 31. Sino-crystal Diamond Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Sino-crystal Diamond Recent Developments/Updates

Table 33. CR GEMS Basic Information, Manufacturing Base and Competitors

Table 34. CR GEMS Major Business

Table 35. CR GEMS Polycrystalline Diamond Compact Product and Services

Table 36. CR GEMS Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. CR GEMS Recent Developments/Updates

Table 38. SF Diamond Basic Information, Manufacturing Base and Competitors

Table 39. SF Diamond Major Business

Table 40. SF Diamond Polycrystalline Diamond Compact Product and Services

Table 41. SF Diamond Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. SF Diamond Recent Developments/Updates

Table 43. Henan Yalong Diamond Basic Information, Manufacturing Base and Competitors

Table 44. Henan Yalong Diamond Major Business

Table 45. Henan Yalong Diamond Polycrystalline Diamond Compact Product and Services

Table 46. Henan Yalong Diamond Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Henan Yalong Diamond Recent Developments/Updates

Table 48. Logan Oil Tools Basic Information, Manufacturing Base and Competitors

Table 49. Logan Oil Tools Major Business

Table 50. Logan Oil Tools Polycrystalline Diamond Compact Product and Services

Table 51. Logan Oil Tools Polycrystalline Diamond Compact Sales Quantity (M Ct),

Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Logan Oil Tools Recent Developments/Updates

Table 53. Grant Prideco Basic Information, Manufacturing Base and Competitors

Table 54. Grant Prideco Major Business

Table 55. Grant Prideco Polycrystalline Diamond Compact Product and Services

Table 56. Grant Prideco Polycrystalline Diamond Compact Sales Quantity (M Ct), Average Price (USD/K Ct), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Grant Prideco Recent Developments/Updates

Table 58. Global Polycrystalline Diamond Compact Sales Quantity by Manufacturer (2019-2024) & (M Ct)

Table 59. Global Polycrystalline Diamond Compact Revenue by Manufacturer (2019-2024) & (USD Million)

Table 60. Global Polycrystalline Diamond Compact Average Price by Manufacturer (2019-2024) & (USD/K Ct)

Table 61. Market Position of Manufacturers in Polycrystalline Diamond Compact, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 62. Head Office and Polycrystalline Diamond Compact Production Site of Key Manufacturer

Table 63. Polycrystalline Diamond Compact Market: Company Product Type Footprint

Table 64. Polycrystalline Diamond Compact Market: Company Product Application Footprint

Table 65. Polycrystalline Diamond Compact New Market Entrants and Barriers to Market Entry

Table 66. Polycrystalline Diamond Compact Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global Polycrystalline Diamond Compact Sales Quantity by Region (2019-2024) & (M Ct)

Table 68. Global Polycrystalline Diamond Compact Sales Quantity by Region (2025-2030) & (M Ct)

Table 69. Global Polycrystalline Diamond Compact Consumption Value by Region (2019-2024) & (USD Million)

Table 70. Global Polycrystalline Diamond Compact Consumption Value by Region (2025-2030) & (USD Million)

Table 71. Global Polycrystalline Diamond Compact Average Price by Region (2019-2024) & (USD/K Ct)

Table 72. Global Polycrystalline Diamond Compact Average Price by Region (2025-2030) & (USD/K Ct)

Table 73. Global Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 74. Global Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 75. Global Polycrystalline Diamond Compact Consumption Value by Type (2019-2024) & (USD Million)

Table 76. Global Polycrystalline Diamond Compact Consumption Value by Type (2025-2030) & (USD Million)

Table 77. Global Polycrystalline Diamond Compact Average Price by Type (2019-2024) & (USD/K Ct)

Table 78. Global Polycrystalline Diamond Compact Average Price by Type (2025-2030) & (USD/K Ct)

Table 79. Global Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 80. Global Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 81. Global Polycrystalline Diamond Compact Consumption Value by Application (2019-2024) & (USD Million)

Table 82. Global Polycrystalline Diamond Compact Consumption Value by Application (2025-2030) & (USD Million)

Table 83. Global Polycrystalline Diamond Compact Average Price by Application (2019-2024) & (USD/K Ct)

Table 84. Global Polycrystalline Diamond Compact Average Price by Application (2025-2030) & (USD/K Ct)

Table 85. North America Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 86. North America Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 87. North America Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 88. North America Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 89. North America Polycrystalline Diamond Compact Sales Quantity by Country (2019-2024) & (M Ct)

Table 90. North America Polycrystalline Diamond Compact Sales Quantity by Country (2025-2030) & (M Ct)

Table 91. North America Polycrystalline Diamond Compact Consumption Value by Country (2019-2024) & (USD Million)

Table 92. North America Polycrystalline Diamond Compact Consumption Value by

Country (2025-2030) & (USD Million)

Table 93. Europe Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 94. Europe Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 95. Europe Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 96. Europe Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 97. Europe Polycrystalline Diamond Compact Sales Quantity by Country (2019-2024) & (M Ct)

Table 98. Europe Polycrystalline Diamond Compact Sales Quantity by Country (2025-2030) & (M Ct)

Table 99. Europe Polycrystalline Diamond Compact Consumption Value by Country (2019-2024) & (USD Million)

Table 100. Europe Polycrystalline Diamond Compact Consumption Value by Country (2025-2030) & (USD Million)

Table 101. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 102. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 103. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 104. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 105. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Region (2019-2024) & (M Ct)

Table 106. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity by Region (2025-2030) & (M Ct)

Table 107. Asia-Pacific Polycrystalline Diamond Compact Consumption Value by Region (2019-2024) & (USD Million)

Table 108. Asia-Pacific Polycrystalline Diamond Compact Consumption Value by Region (2025-2030) & (USD Million)

Table 109. South America Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 110. South America Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 111. South America Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 112. South America Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 113. South America Polycrystalline Diamond Compact Sales Quantity by Country (2019-2024) & (M Ct)

Table 114. South America Polycrystalline Diamond Compact Sales Quantity by Country (2025-2030) & (M Ct)

Table 115. South America Polycrystalline Diamond Compact Consumption Value by Country (2019-2024) & (USD Million)

Table 116. South America Polycrystalline Diamond Compact Consumption Value by Country (2025-2030) & (USD Million)

Table 117. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Type (2019-2024) & (M Ct)

Table 118. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Type (2025-2030) & (M Ct)

Table 119. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Application (2019-2024) & (M Ct)

Table 120. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Application (2025-2030) & (M Ct)

Table 121. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Region (2019-2024) & (M Ct)

Table 122. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity by Region (2025-2030) & (M Ct)

Table 123. Middle East & Africa Polycrystalline Diamond Compact Consumption Value by Region (2019-2024) & (USD Million)

Table 124. Middle East & Africa Polycrystalline Diamond Compact Consumption Value by Region (2025-2030) & (USD Million)

Table 125. Polycrystalline Diamond Compact Raw Material

Table 126. Key Manufacturers of Polycrystalline Diamond Compact Raw Materials

Table 127. Polycrystalline Diamond Compact Typical Distributors

Table 128. Polycrystalline Diamond Compact Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Polycrystalline Diamond Compact Picture

Figure 2. Global Polycrystalline Diamond Compact Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Polycrystalline Diamond Compact Consumption Value Market Share by Type in 2023

Figure 4. Color Examples

Figure 5. Transparent Examples

Figure 6. Global Polycrystalline Diamond Compact Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global Polycrystalline Diamond Compact Consumption Value Market Share by Application in 2023

Figure 8. Wire Drawing Examples

Figure 9. Oil and Gas Examples

Figure 10. Machining Examples

Figure 11. Hardrock Mining Examples

Figure 12. Others Examples

Figure 13. Global Polycrystalline Diamond Compact Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global Polycrystalline Diamond Compact Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global Polycrystalline Diamond Compact Sales Quantity (2019-2030) & (M Ct)

Figure 16. Global Polycrystalline Diamond Compact Average Price (2019-2030) & (USD/K Ct)

Figure 17. Global Polycrystalline Diamond Compact Sales Quantity Market Share by Manufacturer in 2023

Figure 18. Global Polycrystalline Diamond Compact Consumption Value Market Share by Manufacturer in 2023

Figure 19. Producer Shipments of Polycrystalline Diamond Compact by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 20. Top 3 Polycrystalline Diamond Compact Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Top 6 Polycrystalline Diamond Compact Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Global Polycrystalline Diamond Compact Sales Quantity Market Share by

Region (2019-2030)

Figure 23. Global Polycrystalline Diamond Compact Consumption Value Market Share by Region (2019-2030)

Figure 24. North America Polycrystalline Diamond Compact Consumption Value (2019-2030) & (USD Million)

Figure 25. Europe Polycrystalline Diamond Compact Consumption Value (2019-2030) & (USD Million)

Figure 26. Asia-Pacific Polycrystalline Diamond Compact Consumption Value (2019-2030) & (USD Million)

Figure 27. South America Polycrystalline Diamond Compact Consumption Value (2019-2030) & (USD Million)

Figure 28. Middle East & Africa Polycrystalline Diamond Compact Consumption Value (2019-2030) & (USD Million)

Figure 29. Global Polycrystalline Diamond Compact Sales Quantity Market Share by Type (2019-2030)

Figure 30. Global Polycrystalline Diamond Compact Consumption Value Market Share by Type (2019-2030)

Figure 31. Global Polycrystalline Diamond Compact Average Price by Type (2019-2030) & (USD/K Ct)

Figure 32. Global Polycrystalline Diamond Compact Sales Quantity Market Share by Application (2019-2030)

Figure 33. Global Polycrystalline Diamond Compact Consumption Value Market Share by Application (2019-2030)

Figure 34. Global Polycrystalline Diamond Compact Average Price by Application (2019-2030) & (USD/K Ct)

Figure 35. North America Polycrystalline Diamond Compact Sales Quantity Market Share by Type (2019-2030)

Figure 36. North America Polycrystalline Diamond Compact Sales Quantity Market Share by Application (2019-2030)

Figure 37. North America Polycrystalline Diamond Compact Sales Quantity Market Share by Country (2019-2030)

Figure 38. North America Polycrystalline Diamond Compact Consumption Value Market Share by Country (2019-2030)

Figure 39. United States Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Canada Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Mexico Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Europe Polycrystalline Diamond Compact Sales Quantity Market Share by Type (2019-2030)

Figure 43. Europe Polycrystalline Diamond Compact Sales Quantity Market Share by Application (2019-2030)

Figure 44. Europe Polycrystalline Diamond Compact Sales Quantity Market Share by Country (2019-2030)

Figure 45. Europe Polycrystalline Diamond Compact Consumption Value Market Share by Country (2019-2030)

Figure 46. Germany Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. France Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. United Kingdom Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Russia Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Italy Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity Market Share by Type (2019-2030)

Figure 52. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity Market Share by Application (2019-2030)

Figure 53. Asia-Pacific Polycrystalline Diamond Compact Sales Quantity Market Share by Region (2019-2030)

Figure 54. Asia-Pacific Polycrystalline Diamond Compact Consumption Value Market Share by Region (2019-2030)

Figure 55. China Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Japan Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Korea Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. India Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Southeast Asia Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Australia Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. South America Polycrystalline Diamond Compact Sales Quantity Market

Share by Type (2019-2030)

Figure 62. South America Polycrystalline Diamond Compact Sales Quantity Market

Share by Application (2019-2030)

Figure 63. South America Polycrystalline Diamond Compact Sales Quantity Market

Share by Country (2019-2030)

Figure 64. South America Polycrystalline Diamond Compact Consumption Value Market

Share by Country (2019-2030)

Figure 65. Brazil Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Argentina Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity Market Share by Type (2019-2030)

Figure 68. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity Market Share by Application (2019-2030)

Figure 69. Middle East & Africa Polycrystalline Diamond Compact Sales Quantity Market Share by Region (2019-2030)

Figure 70. Middle East & Africa Polycrystalline Diamond Compact Consumption Value Market Share by Region (2019-2030)

Figure 71. Turkey Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Egypt Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Saudi Arabia Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. South Africa Polycrystalline Diamond Compact Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Polycrystalline Diamond Compact Market Drivers

Figure 76. Polycrystalline Diamond Compact Market Restraints

Figure 77. Polycrystalline Diamond Compact Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Polycrystalline Diamond Compact in 2023

Figure 80. Manufacturing Process Analysis of Polycrystalline Diamond Compact

Figure 81. Polycrystalline Diamond Compact Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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