

# Global Synthetic Diamond 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 Synthetic Diamond market size was valued at USD 1903.1 million in 2023 and is forecast to a readjusted size of USD 2973.8 million by 2030 with a CAGR of 6.6% during review period.

Synthetic diamond is usually produced by subjecting graphite to very high temperatures and pressures. Synthetic diamond resembles natural diamond in most fundamental properties, retaining the extreme hardness, broad transparency (when pure), high thermal conductivity, and high electrical resistivity for which diamond is highly prized. Because synthesis is an expensive process, large stones of gem quality are rarely made. Instead, most synthetic diamond is produced as grit or small crystals that are used to provide hard coatings for industrial equipment such as grinding wheels, machine tools, wire-drawing dies, quarrying saws, and mining drills. In addition, diamond films can be grown on various materials by subjecting carbon-containing gas to extreme heat, and those layers can be used in cutting tools, windows for optical devices, or substrates for semiconductors.

Global key players of synthetic diamond include Element Six, Zhongnan Diamond, Huanghe Whirlwind, Diamond Foundry, Sino-Crystal Diamond, etc., mainly located in North America, Europe, China, Southeast Asia, Japan, and South Korea. The top five manufacturers occupy more than 70% of the market share, with the largest producer being Element Six, accounting for 26%. North America is the largest market with about 47% market share, followed by Asia Pacific with 36%. In terms of product type, HPHT synthetic diamond is the largest segment with a share of about 59%. Also in terms of downstream, diamond is the largest downstream segment with a 35% share.

The Global Info Research report includes an overview of the development of the Synthetic Diamond industry chain, the market status of Construction Material (HPHT, CVD), Machining and Cutting Tools (HPHT, CVD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Synthetic Diamond.

Regionally, the report analyzes the Synthetic Diamond 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 Synthetic Diamond market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Synthetic Diamond 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 Synthetic Diamond 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 (Million Carats), revenue generated, and market share of different by Type (e.g., HPHT, CVD).

**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 Synthetic Diamond market.

**Regional Analysis:** The report involves examining the Synthetic Diamond 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 Synthetic Diamond market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Synthetic Diamond:

**Company Analysis:** Report covers individual Synthetic Diamond 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 Synthetic Diamond. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Construction Material, Machining and Cutting Tools).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Synthetic Diamond 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

Synthetic Diamond 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

HPHT

CVD

### Market segment by Application

Construction Material

Machining and Cutting Tools

Diamond

Others

#### Major players covered

Element Six

Zhongnan Diamond

Huanghe Whirlwind

Diamond Foundry

Sino-Crystal Diamond

Ningbo Crysdiam Technology

Ila Technologies

Henan Liliang Diamond

ILJIN Diamond

Sumitomo Electric Industries

Shanghai Zhengshi Technology

CR GEMS

Anhui Hongjing New Materials

Henan Yalong Superhard Materials

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 Synthetic Diamond product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Synthetic Diamond 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 Synthetic Diamond 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 Synthetic Diamond.

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

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Synthetic Diamond

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Synthetic Diamond Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 HPHT

1.3.3 CVD

1.4 Market Analysis by Application

1.4.1 Overview: Global Synthetic Diamond Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Construction Material

1.4.3 Machining and Cutting Tools

1.4.4 Diamond

1.4.5 Others

1.5 Global Synthetic Diamond Market Size & Forecast

1.5.1 Global Synthetic Diamond Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Synthetic Diamond Sales Quantity (2019-2030)

1.5.3 Global Synthetic Diamond Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 Element Six

2.1.1 Element Six Details

2.1.2 Element Six Major Business

2.1.3 Element Six Synthetic Diamond Product and Services

2.1.4 Element Six Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Element Six Recent Developments/Updates

2.2 Zhongnan Diamond

2.2.1 Zhongnan Diamond Details

2.2.2 Zhongnan Diamond Major Business

2.2.3 Zhongnan Diamond Synthetic Diamond Product and Services

2.2.4 Zhongnan Diamond Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Zhongnan Diamond Recent Developments/Updates

## 2.3 Huanghe Whirlwind

### 2.3.1 Huanghe Whirlwind Details

### 2.3.2 Huanghe Whirlwind Major Business

### 2.3.3 Huanghe Whirlwind Synthetic Diamond Product and Services

### 2.3.4 Huanghe Whirlwind Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 Huanghe Whirlwind Recent Developments/Updates

## 2.4 Diamond Foundry

### 2.4.1 Diamond Foundry Details

### 2.4.2 Diamond Foundry Major Business

### 2.4.3 Diamond Foundry Synthetic Diamond Product and Services

### 2.4.4 Diamond Foundry Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 Diamond Foundry Recent Developments/Updates

## 2.5 Sino-Crystal Diamond

### 2.5.1 Sino-Crystal Diamond Details

### 2.5.2 Sino-Crystal Diamond Major Business

### 2.5.3 Sino-Crystal Diamond Synthetic Diamond Product and Services

### 2.5.4 Sino-Crystal Diamond Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 Sino-Crystal Diamond Recent Developments/Updates

## 2.6 Ningbo Crysdiem Technology

### 2.6.1 Ningbo Crysdiem Technology Details

### 2.6.2 Ningbo Crysdiem Technology Major Business

### 2.6.3 Ningbo Crysdiem Technology Synthetic Diamond Product and Services

### 2.6.4 Ningbo Crysdiem Technology Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 Ningbo Crysdiem Technology Recent Developments/Updates

## 2.7 Ila Technologies

### 2.7.1 Ila Technologies Details

### 2.7.2 Ila Technologies Major Business

### 2.7.3 Ila Technologies Synthetic Diamond Product and Services

### 2.7.4 Ila Technologies Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 Ila Technologies Recent Developments/Updates

## 2.8 Henan Liliang Diamond

### 2.8.1 Henan Liliang Diamond Details

### 2.8.2 Henan Liliang Diamond Major Business

### 2.8.3 Henan Liliang Diamond Synthetic Diamond Product and Services



2.8.4 Henan Liliang Diamond Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Henan Liliang Diamond Recent Developments/Updates

2.9 ILJIN Diamond

2.9.1 ILJIN Diamond Details

2.9.2 ILJIN Diamond Major Business

2.9.3 ILJIN Diamond Synthetic Diamond Product and Services

2.9.4 ILJIN Diamond Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 ILJIN Diamond Recent Developments/Updates

2.10 Sumitomo Electric Industries

2.10.1 Sumitomo Electric Industries Details

2.10.2 Sumitomo Electric Industries Major Business

2.10.3 Sumitomo Electric Industries Synthetic Diamond Product and Services

2.10.4 Sumitomo Electric Industries Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Sumitomo Electric Industries Recent Developments/Updates

2.11 Shanghai Zhengshi Technology

2.11.1 Shanghai Zhengshi Technology Details

2.11.2 Shanghai Zhengshi Technology Major Business

2.11.3 Shanghai Zhengshi Technology Synthetic Diamond Product and Services

2.11.4 Shanghai Zhengshi Technology Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Shanghai Zhengshi Technology Recent Developments/Updates

2.12 CR GEMS

2.12.1 CR GEMS Details

2.12.2 CR GEMS Major Business

2.12.3 CR GEMS Synthetic Diamond Product and Services

2.12.4 CR GEMS Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 CR GEMS Recent Developments/Updates

2.13 Anhui Hongjing New Materials

2.13.1 Anhui Hongjing New Materials Details

2.13.2 Anhui Hongjing New Materials Major Business

2.13.3 Anhui Hongjing New Materials Synthetic Diamond Product and Services

2.13.4 Anhui Hongjing New Materials Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Anhui Hongjing New Materials Recent Developments/Updates

2.14 Henan Yalong Superhard Materials

- 2.14.1 Henan Yalong Superhard Materials Details
- 2.14.2 Henan Yalong Superhard Materials Major Business
- 2.14.3 Henan Yalong Superhard Materials Synthetic Diamond Product and Services
- 2.14.4 Henan Yalong Superhard Materials Synthetic Diamond Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.14.5 Henan Yalong Superhard Materials Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SYNTHETIC DIAMOND BY MANUFACTURER**

- 3.1 Global Synthetic Diamond Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Synthetic Diamond Revenue by Manufacturer (2019-2024)
- 3.3 Global Synthetic Diamond Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Synthetic Diamond by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Synthetic Diamond Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Synthetic Diamond Manufacturer Market Share in 2023
- 3.5 Synthetic Diamond Market: Overall Company Footprint Analysis
  - 3.5.1 Synthetic Diamond Market: Region Footprint
  - 3.5.2 Synthetic Diamond Market: Company Product Type Footprint
  - 3.5.3 Synthetic Diamond 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 Synthetic Diamond Market Size by Region
  - 4.1.1 Global Synthetic Diamond Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Synthetic Diamond Consumption Value by Region (2019-2030)
  - 4.1.3 Global Synthetic Diamond Average Price by Region (2019-2030)
- 4.2 North America Synthetic Diamond Consumption Value (2019-2030)
- 4.3 Europe Synthetic Diamond Consumption Value (2019-2030)
- 4.4 Asia-Pacific Synthetic Diamond Consumption Value (2019-2030)
- 4.5 South America Synthetic Diamond Consumption Value (2019-2030)
- 4.6 Middle East and Africa Synthetic Diamond Consumption Value (2019-2030)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Synthetic Diamond Sales Quantity by Type (2019-2030)

5.2 Global Synthetic Diamond Consumption Value by Type (2019-2030)

5.3 Global Synthetic Diamond Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Synthetic Diamond Sales Quantity by Application (2019-2030)

6.2 Global Synthetic Diamond Consumption Value by Application (2019-2030)

6.3 Global Synthetic Diamond Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

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

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

7.3 North America Synthetic Diamond Market Size by Country

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

7.3.2 North America Synthetic Diamond 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 Synthetic Diamond Sales Quantity by Type (2019-2030)

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

8.3 Europe Synthetic Diamond Market Size by Country

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

8.3.2 Europe Synthetic Diamond 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 Synthetic Diamond Sales Quantity by Type (2019-2030)

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

9.3 Asia-Pacific Synthetic Diamond Market Size by Region

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

- 9.3.2 Asia-Pacific Synthetic Diamond 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 Synthetic Diamond Sales Quantity by Type (2019-2030)
- 10.2 South America Synthetic Diamond Sales Quantity by Application (2019-2030)
- 10.3 South America Synthetic Diamond Market Size by Country
  - 10.3.1 South America Synthetic Diamond Sales Quantity by Country (2019-2030)
  - 10.3.2 South America Synthetic Diamond 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 Synthetic Diamond Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Synthetic Diamond Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Synthetic Diamond Market Size by Country
  - 11.3.1 Middle East & Africa Synthetic Diamond Sales Quantity by Country (2019-2030)
  - 11.3.2 Middle East & Africa Synthetic Diamond 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 Synthetic Diamond Market Drivers
- 12.2 Synthetic Diamond Market Restraints
- 12.3 Synthetic Diamond 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 Synthetic Diamond and Key Manufacturers

13.2 Manufacturing Costs Percentage of Synthetic Diamond

13.3 Synthetic Diamond Production Process

13.4 Synthetic Diamond Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Synthetic Diamond Typical Distributors

14.3 Synthetic Diamond 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 Synthetic Diamond Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Synthetic Diamond Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Element Six Basic Information, Manufacturing Base and Competitors

Table 4. Element Six Major Business

Table 5. Element Six Synthetic Diamond Product and Services

Table 6. Element Six Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Element Six Recent Developments/Updates

Table 8. Zhongnan Diamond Basic Information, Manufacturing Base and Competitors

Table 9. Zhongnan Diamond Major Business

Table 10. Zhongnan Diamond Synthetic Diamond Product and Services

Table 11. Zhongnan Diamond Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Zhongnan Diamond Recent Developments/Updates

Table 13. Huanghe Whirlwind Basic Information, Manufacturing Base and Competitors

Table 14. Huanghe Whirlwind Major Business

Table 15. Huanghe Whirlwind Synthetic Diamond Product and Services

Table 16. Huanghe Whirlwind Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Huanghe Whirlwind Recent Developments/Updates

Table 18. Diamond Foundry Basic Information, Manufacturing Base and Competitors

Table 19. Diamond Foundry Major Business

Table 20. Diamond Foundry Synthetic Diamond Product and Services

Table 21. Diamond Foundry Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Diamond Foundry Recent Developments/Updates

Table 23. Sino-Crystal Diamond Basic Information, Manufacturing Base and Competitors

Table 24. Sino-Crystal Diamond Major Business

Table 25. Sino-Crystal Diamond Synthetic Diamond Product and Services

Table 26. Sino-Crystal Diamond Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Sino-Crystal Diamond Recent Developments/Updates

Table 28. Ningbo Crysdiam Technology Basic Information, Manufacturing Base and Competitors

Table 29. Ningbo Crysdiam Technology Major Business

Table 30. Ningbo Crysdiam Technology Synthetic Diamond Product and Services

Table 31. Ningbo Crysdiam Technology Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Ningbo Crysdiam Technology Recent Developments/Updates

Table 33. Ila Technologies Basic Information, Manufacturing Base and Competitors

Table 34. Ila Technologies Major Business

Table 35. Ila Technologies Synthetic Diamond Product and Services

Table 36. Ila Technologies Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Ila Technologies Recent Developments/Updates

Table 38. Henan Liliang Diamond Basic Information, Manufacturing Base and Competitors

Table 39. Henan Liliang Diamond Major Business

Table 40. Henan Liliang Diamond Synthetic Diamond Product and Services

Table 41. Henan Liliang Diamond Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Henan Liliang Diamond Recent Developments/Updates

Table 43. ILJIN Diamond Basic Information, Manufacturing Base and Competitors

Table 44. ILJIN Diamond Major Business

Table 45. ILJIN Diamond Synthetic Diamond Product and Services

Table 46. ILJIN Diamond Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. ILJIN Diamond Recent Developments/Updates

Table 48. Sumitomo Electric Industries Basic Information, Manufacturing Base and Competitors

Table 49. Sumitomo Electric Industries Major Business

Table 50. Sumitomo Electric Industries Synthetic Diamond Product and Services

Table 51. Sumitomo Electric Industries Synthetic Diamond Sales Quantity (Million

Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Sumitomo Electric Industries Recent Developments/Updates

Table 53. Shanghai Zhengshi Technology Basic Information, Manufacturing Base and Competitors

Table 54. Shanghai Zhengshi Technology Major Business

Table 55. Shanghai Zhengshi Technology Synthetic Diamond Product and Services

Table 56. Shanghai Zhengshi Technology Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Shanghai Zhengshi Technology Recent Developments/Updates

Table 58. CR GEMS Basic Information, Manufacturing Base and Competitors

Table 59. CR GEMS Major Business

Table 60. CR GEMS Synthetic Diamond Product and Services

Table 61. CR GEMS Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. CR GEMS Recent Developments/Updates

Table 63. Anhui Hongjing New Materials Basic Information, Manufacturing Base and Competitors

Table 64. Anhui Hongjing New Materials Major Business

Table 65. Anhui Hongjing New Materials Synthetic Diamond Product and Services

Table 66. Anhui Hongjing New Materials Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Anhui Hongjing New Materials Recent Developments/Updates

Table 68. Henan Yalong Superhard Materials Basic Information, Manufacturing Base and Competitors

Table 69. Henan Yalong Superhard Materials Major Business

Table 70. Henan Yalong Superhard Materials Synthetic Diamond Product and Services

Table 71. Henan Yalong Superhard Materials Synthetic Diamond Sales Quantity (Million Carats), Average Price (US\$/K Carats), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Henan Yalong Superhard Materials Recent Developments/Updates

Table 73. Global Synthetic Diamond Sales Quantity by Manufacturer (2019-2024) & (Million Carats)

Table 74. Global Synthetic Diamond Revenue by Manufacturer (2019-2024) & (USD Million)

Table 75. Global Synthetic Diamond Average Price by Manufacturer (2019-2024) & (US\$/K Carats)



Table 76. Market Position of Manufacturers in Synthetic Diamond, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 77. Head Office and Synthetic Diamond Production Site of Key Manufacturer

Table 78. Synthetic Diamond Market: Company Product Type Footprint

Table 79. Synthetic Diamond Market: Company Product Application Footprint

Table 80. Synthetic Diamond New Market Entrants and Barriers to Market Entry

Table 81. Synthetic Diamond Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Synthetic Diamond Sales Quantity by Region (2019-2024) & (Million Carats)

Table 83. Global Synthetic Diamond Sales Quantity by Region (2025-2030) & (Million Carats)

Table 84. Global Synthetic Diamond Consumption Value by Region (2019-2024) & (USD Million)

Table 85. Global Synthetic Diamond Consumption Value by Region (2025-2030) & (USD Million)

Table 86. Global Synthetic Diamond Average Price by Region (2019-2024) & (US\$/K Carats)

Table 87. Global Synthetic Diamond Average Price by Region (2025-2030) & (US\$/K Carats)

Table 88. Global Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 89. Global Synthetic Diamond Sales Quantity by Type (2025-2030) & (Million Carats)

Table 90. Global Synthetic Diamond Consumption Value by Type (2019-2024) & (USD Million)

Table 91. Global Synthetic Diamond Consumption Value by Type (2025-2030) & (USD Million)

Table 92. Global Synthetic Diamond Average Price by Type (2019-2024) & (US\$/K Carats)

Table 93. Global Synthetic Diamond Average Price by Type (2025-2030) & (US\$/K Carats)

Table 94. Global Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 95. Global Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 96. Global Synthetic Diamond Consumption Value by Application (2019-2024) & (USD Million)

Table 97. Global Synthetic Diamond Consumption Value by Application (2025-2030) & (USD Million)

Table 98. Global Synthetic Diamond Average Price by Application (2019-2024) & (US\$/K Carats)

Table 99. Global Synthetic Diamond Average Price by Application (2025-2030) & (US\$/K Carats)

Table 100. North America Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 101. North America Synthetic Diamond Sales Quantity by Type (2025-2030) & (Million Carats)

Table 102. North America Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 103. North America Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 104. North America Synthetic Diamond Sales Quantity by Country (2019-2024) & (Million Carats)

Table 105. North America Synthetic Diamond Sales Quantity by Country (2025-2030) & (Million Carats)

Table 106. North America Synthetic Diamond Consumption Value by Country (2019-2024) & (USD Million)

Table 107. North America Synthetic Diamond Consumption Value by Country (2025-2030) & (USD Million)

Table 108. Europe Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 109. Europe Synthetic Diamond Sales Quantity by Type (2025-2030) & (Million Carats)

Table 110. Europe Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 111. Europe Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 112. Europe Synthetic Diamond Sales Quantity by Country (2019-2024) & (Million Carats)

Table 113. Europe Synthetic Diamond Sales Quantity by Country (2025-2030) & (Million Carats)

Table 114. Europe Synthetic Diamond Consumption Value by Country (2019-2024) & (USD Million)

Table 115. Europe Synthetic Diamond Consumption Value by Country (2025-2030) & (USD Million)

Table 116. Asia-Pacific Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 117. Asia-Pacific Synthetic Diamond Sales Quantity by Type (2025-2030) &

(Million Carats)

Table 118. Asia-Pacific Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 119. Asia-Pacific Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 120. Asia-Pacific Synthetic Diamond Sales Quantity by Region (2019-2024) & (Million Carats)

Table 121. Asia-Pacific Synthetic Diamond Sales Quantity by Region (2025-2030) & (Million Carats)

Table 122. Asia-Pacific Synthetic Diamond Consumption Value by Region (2019-2024) & (USD Million)

Table 123. Asia-Pacific Synthetic Diamond Consumption Value by Region (2025-2030) & (USD Million)

Table 124. South America Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 125. South America Synthetic Diamond Sales Quantity by Type (2025-2030) & (Million Carats)

Table 126. South America Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 127. South America Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 128. South America Synthetic Diamond Sales Quantity by Country (2019-2024) & (Million Carats)

Table 129. South America Synthetic Diamond Sales Quantity by Country (2025-2030) & (Million Carats)

Table 130. South America Synthetic Diamond Consumption Value by Country (2019-2024) & (USD Million)

Table 131. South America Synthetic Diamond Consumption Value by Country (2025-2030) & (USD Million)

Table 132. Middle East & Africa Synthetic Diamond Sales Quantity by Type (2019-2024) & (Million Carats)

Table 133. Middle East & Africa Synthetic Diamond Sales Quantity by Type (2025-2030) & (Million Carats)

Table 134. Middle East & Africa Synthetic Diamond Sales Quantity by Application (2019-2024) & (Million Carats)

Table 135. Middle East & Africa Synthetic Diamond Sales Quantity by Application (2025-2030) & (Million Carats)

Table 136. Middle East & Africa Synthetic Diamond Sales Quantity by Region (2019-2024) & (Million Carats)

Table 137. Middle East & Africa Synthetic Diamond Sales Quantity by Region  
(2025-2030) & (Million Carats)

Table 138. Middle East & Africa Synthetic Diamond Consumption Value by Region  
(2019-2024) & (USD Million)

Table 139. Middle East & Africa Synthetic Diamond Consumption Value by Region  
(2025-2030) & (USD Million)

Table 140. Synthetic Diamond Raw Material

Table 141. Key Manufacturers of Synthetic Diamond Raw Materials

Table 142. Synthetic Diamond Typical Distributors

Table 143. Synthetic Diamond Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Synthetic Diamond Picture

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

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

Figure 4. HPHT Examples

Figure 5. CVD Examples

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

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

Figure 8. Construction Material Examples

Figure 9. Machining and Cutting Tools Examples

Figure 10. Diamond Examples

Figure 11. Others Examples

Figure 12. Global Synthetic Diamond Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global Synthetic Diamond Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global Synthetic Diamond Sales Quantity (2019-2030) & (Million Carats)

Figure 15. Global Synthetic Diamond Average Price (2019-2030) & (US\$/K Carats)

Figure 16. Global Synthetic Diamond Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global Synthetic Diamond Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of Synthetic Diamond by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 Synthetic Diamond Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 Synthetic Diamond Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global Synthetic Diamond Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Synthetic Diamond Consumption Value Market Share by Region (2019-2030)

Figure 23. North America Synthetic Diamond Consumption Value (2019-2030) & (USD

Million)

Figure 24. Europe Synthetic Diamond Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Synthetic Diamond Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Synthetic Diamond Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Synthetic Diamond Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Synthetic Diamond Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Synthetic Diamond Average Price by Type (2019-2030) & (US\$/K Carats)

Figure 31. Global Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Synthetic Diamond Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Synthetic Diamond Average Price by Application (2019-2030) & (US\$/K Carats)

Figure 34. North America Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Synthetic Diamond Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Synthetic Diamond Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe Synthetic Diamond Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe Synthetic Diamond Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific Synthetic Diamond Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific Synthetic Diamond Consumption Value Market Share by Region (2019-2030)

Figure 54. China Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America Synthetic Diamond Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Synthetic Diamond Consumption Value Market Share by

Country (2019-2030)

Figure 64. Brazil Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Synthetic Diamond Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Synthetic Diamond Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Synthetic Diamond Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Synthetic Diamond Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Synthetic Diamond Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Synthetic Diamond Market Drivers

Figure 75. Synthetic Diamond Market Restraints

Figure 76. Synthetic Diamond Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Synthetic Diamond in 2023

Figure 79. Manufacturing Process Analysis of Synthetic Diamond

Figure 80. Synthetic Diamond Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source



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