

Global HPHT Lab Grown Rough Diamonds Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global HPHT Lab Grown Rough Diamonds market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

HPHT (High-Pressure High-Temperature) lab-grown rough diamonds are synthetic or cultured diamonds created through a specific method that replicates the conditions found deep within the Earth's mantle where natural diamonds are formed. In the HPHT process, high pressure and high temperature are applied to a carbon source, causing carbon atoms to arrange themselves into a crystal lattice structure, forming a diamond.

HPHT technology involves placing a carbon source (usually a small diamond seed or carbon substrate) into a growth cell. The cell is subjected to extreme heat (up to 2,200 degrees Celsius) and high pressure (about 1.5 million pounds per square inch), replicating the conditions found in the Earth's mantle. Under these conditions, carbon atoms from the source bond together to create a larger diamond crystal.

Like natural diamonds, HPHT lab-grown rough diamonds are composed of carbon atoms arranged in a diamond lattice structure. This gives them the same chemical composition and physical properties as natural diamonds. HPHT lab-grown rough diamonds can exhibit a range of colors and clarity characteristics, similar to natural diamonds. They may be used for gem-quality diamonds, industrial applications, or research purposes.

This report studies the global HPHT Lab Grown Rough Diamonds production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for HPHT Lab Grown Rough Diamonds, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of HPHT Lab Grown Rough Diamonds that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HPHT Lab Grown Rough Diamonds total production and demand, 2018-2029, (Tons)

Global HPHT Lab Grown Rough Diamonds total production value, 2018-2029, (USD Million)

Global HPHT Lab Grown Rough Diamonds production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global HPHT Lab Grown Rough Diamonds consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: HPHT Lab Grown Rough Diamonds domestic production, consumption, key domestic manufacturers and share

Global HPHT Lab Grown Rough Diamonds production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global HPHT Lab Grown Rough Diamonds production by Clarity, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global HPHT Lab Grown Rough Diamonds production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global HPHT Lab Grown Rough Diamonds 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 North Industries ZhongNan Diamond, Henan Huanghe Whirlwind, Sino-Crystal Diamond, Henan Liliang Diamond, Ila Technologies and New Diamond Technology, 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 HPHT Lab Grown Rough Diamonds market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Clarity, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global HPHT Lab Grown Rough Diamonds Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HPHT Lab Grown Rough Diamonds Market, Segmentation by Clarity

VVS

VS

SI

Others

Global HPHT Lab Grown Rough Diamonds Market, Segmentation by Application

Gemstone

Industrial Applications

Companies Profiled:

North Industries ZhongNan Diamond

Henan Huanghe Whirlwind

Sino-Crystal Diamond

Henan Liliang Diamond

Ila Technologies

New Diamond Technology

Key Questions Answered

1. How big is the global HPHT Lab Grown Rough Diamonds market?
2. What is the demand of the global HPHT Lab Grown Rough Diamonds market?
3. What is the year over year growth of the global HPHT Lab Grown Rough Diamonds market?
4. What is the production and production value of the global HPHT Lab Grown Rough Diamonds market?

5. Who are the key producers in the global HPHT Lab Grown Rough Diamonds market?

Contents

1 SUPPLY SUMMARY

- 1.1 HPHT Lab Grown Rough Diamonds Introduction
- 1.2 World HPHT Lab Grown Rough Diamonds Supply & Forecast
 - 1.2.1 World HPHT Lab Grown Rough Diamonds Production Value (2018 & 2022 & 2029)
 - 1.2.2 World HPHT Lab Grown Rough Diamonds Production (2018-2029)
 - 1.2.3 World HPHT Lab Grown Rough Diamonds Pricing Trends (2018-2029)
- 1.3 World HPHT Lab Grown Rough Diamonds Production by Region (Based on Production Site)
 - 1.3.1 World HPHT Lab Grown Rough Diamonds Production Value by Region (2018-2029)
 - 1.3.2 World HPHT Lab Grown Rough Diamonds Production by Region (2018-2029)
 - 1.3.3 World HPHT Lab Grown Rough Diamonds Average Price by Region (2018-2029)
 - 1.3.4 North America HPHT Lab Grown Rough Diamonds Production (2018-2029)
 - 1.3.5 Europe HPHT Lab Grown Rough Diamonds Production (2018-2029)
 - 1.3.6 China HPHT Lab Grown Rough Diamonds Production (2018-2029)
 - 1.3.7 Japan HPHT Lab Grown Rough Diamonds Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 HPHT Lab Grown Rough Diamonds Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 HPHT Lab Grown Rough Diamonds Major Market Trends

2 DEMAND SUMMARY

- 2.1 World HPHT Lab Grown Rough Diamonds Demand (2018-2029)
- 2.2 World HPHT Lab Grown Rough Diamonds Consumption by Region
 - 2.2.1 World HPHT Lab Grown Rough Diamonds Consumption by Region (2018-2023)
 - 2.2.2 World HPHT Lab Grown Rough Diamonds Consumption Forecast by Region (2024-2029)
- 2.3 United States HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.4 China HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.5 Europe HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.6 Japan HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.7 South Korea HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.8 ASEAN HPHT Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.9 India HPHT Lab Grown Rough Diamonds Consumption (2018-2029)

3 WORLD HPHT LAB GROWN ROUGH DIAMONDS MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World HPHT Lab Grown Rough Diamonds Production Value by Manufacturer (2018-2023)

3.2 World HPHT Lab Grown Rough Diamonds Production by Manufacturer (2018-2023)

3.3 World HPHT Lab Grown Rough Diamonds Average Price by Manufacturer (2018-2023)

3.4 HPHT Lab Grown Rough Diamonds Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global HPHT Lab Grown Rough Diamonds Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for HPHT Lab Grown Rough Diamonds in 2022

3.5.3 Global Concentration Ratios (CR8) for HPHT Lab Grown Rough Diamonds in 2022

3.6 HPHT Lab Grown Rough Diamonds Market: Overall Company Footprint Analysis

3.6.1 HPHT Lab Grown Rough Diamonds Market: Region Footprint

3.6.2 HPHT Lab Grown Rough Diamonds Market: Company Product Type Footprint

3.6.3 HPHT Lab Grown Rough Diamonds 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: HPHT Lab Grown Rough Diamonds Production Value Comparison

4.1.1 United States VS China: HPHT Lab Grown Rough Diamonds Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: HPHT Lab Grown Rough Diamonds Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: HPHT Lab Grown Rough Diamonds Production Comparison

4.2.1 United States VS China: HPHT Lab Grown Rough Diamonds Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: HPHT Lab Grown Rough Diamonds Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: HPHT Lab Grown Rough Diamonds Consumption Comparison

4.3.1 United States VS China: HPHT Lab Grown Rough Diamonds Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: HPHT Lab Grown Rough Diamonds Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based HPHT Lab Grown Rough Diamonds Manufacturers and Market Share, 2018-2023

4.4.1 United States Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value (2018-2023)

4.4.3 United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production (2018-2023)

4.5 China Based HPHT Lab Grown Rough Diamonds Manufacturers and Market Share

4.5.1 China Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value (2018-2023)

4.5.3 China Based Manufacturers HPHT Lab Grown Rough Diamonds Production (2018-2023)

4.6 Rest of World Based HPHT Lab Grown Rough Diamonds Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production (2018-2023)

5 MARKET ANALYSIS BY CLARITY

5.1 World HPHT Lab Grown Rough Diamonds Market Size Overview by Clarity: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Clarity

5.2.1 VVS

5.2.2 VS

5.2.3 SI

5.2.4 Others

5.3 Market Segment by Clarity

5.3.1 World HPHT Lab Grown Rough Diamonds Production by Clarity (2018-2029)

5.3.2 World HPHT Lab Grown Rough Diamonds Production Value by Clarity (2018-2029)

5.3.3 World HPHT Lab Grown Rough Diamonds Average Price by Clarity (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World HPHT Lab Grown Rough Diamonds Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Gemstone

6.2.2 Industrial Applications

6.3 Market Segment by Application

6.3.1 World HPHT Lab Grown Rough Diamonds Production by Application (2018-2029)

6.3.2 World HPHT Lab Grown Rough Diamonds Production Value by Application (2018-2029)

6.3.3 World HPHT Lab Grown Rough Diamonds Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 North Industries ZhongNan Diamond

7.1.1 North Industries ZhongNan Diamond Details

7.1.2 North Industries ZhongNan Diamond Major Business

7.1.3 North Industries ZhongNan Diamond HPHT Lab Grown Rough Diamonds Product and Services

7.1.4 North Industries ZhongNan Diamond HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 North Industries ZhongNan Diamond Recent Developments/Updates

7.1.6 North Industries ZhongNan Diamond Competitive Strengths & Weaknesses

7.2 Henan Huanghe Whirlwind

7.2.1 Henan Huanghe Whirlwind Details

7.2.2 Henan Huanghe Whirlwind Major Business

7.2.3 Henan Huanghe Whirlwind HPHT Lab Grown Rough Diamonds Product and Services

7.2.4 Henan Huanghe Whirlwind HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Henan Huanghe Whirlwind Recent Developments/Updates

7.2.6 Henan Huanghe Whirlwind Competitive Strengths & Weaknesses

7.3 Sino-Crystal Diamond

7.3.1 Sino-Crystal Diamond Details

7.3.2 Sino-Crystal Diamond Major Business

7.3.3 Sino-Crystal Diamond HPHT Lab Grown Rough Diamonds Product and Services

7.3.4 Sino-Crystal Diamond HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Sino-Crystal Diamond Recent Developments/Updates

7.3.6 Sino-Crystal Diamond Competitive Strengths & Weaknesses

7.4 Henan Liliang Diamond

7.4.1 Henan Liliang Diamond Details

7.4.2 Henan Liliang Diamond Major Business

7.4.3 Henan Liliang Diamond HPHT Lab Grown Rough Diamonds Product and Services

7.4.4 Henan Liliang Diamond HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Henan Liliang Diamond Recent Developments/Updates

7.4.6 Henan Liliang Diamond Competitive Strengths & Weaknesses

7.5 Ila Technologies

7.5.1 Ila Technologies Details

7.5.2 Ila Technologies Major Business

7.5.3 Ila Technologies HPHT Lab Grown Rough Diamonds Product and Services

7.5.4 Ila Technologies HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Ila Technologies Recent Developments/Updates

7.5.6 Ila Technologies Competitive Strengths & Weaknesses

7.6 New Diamond Technology

7.6.1 New Diamond Technology Details

7.6.2 New Diamond Technology Major Business

7.6.3 New Diamond Technology HPHT Lab Grown Rough Diamonds Product and Services

7.6.4 New Diamond Technology HPHT Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 New Diamond Technology Recent Developments/Updates

7.6.6 New Diamond Technology Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 HPHT Lab Grown Rough Diamonds Industry Chain

8.2 HPHT Lab Grown Rough Diamonds Upstream Analysis

8.2.1 HPHT Lab Grown Rough Diamonds Core Raw Materials

8.2.2 Main Manufacturers of HPHT Lab Grown Rough Diamonds Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 HPHT Lab Grown Rough Diamonds Production Mode

8.6 HPHT Lab Grown Rough Diamonds Procurement Model

8.7 HPHT Lab Grown Rough Diamonds Industry Sales Model and Sales Channels

8.7.1 HPHT Lab Grown Rough Diamonds Sales Model

8.7.2 HPHT Lab Grown Rough Diamonds Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World HPHT Lab Grown Rough Diamonds Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World HPHT Lab Grown Rough Diamonds Production Value by Region (2018-2023) & (USD Million)

Table 3. World HPHT Lab Grown Rough Diamonds Production Value by Region (2024-2029) & (USD Million)

Table 4. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Region (2018-2023)

Table 5. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Region (2024-2029)

Table 6. World HPHT Lab Grown Rough Diamonds Production by Region (2018-2023) & (Tons)

Table 7. World HPHT Lab Grown Rough Diamonds Production by Region (2024-2029) & (Tons)

Table 8. World HPHT Lab Grown Rough Diamonds Production Market Share by Region (2018-2023)

Table 9. World HPHT Lab Grown Rough Diamonds Production Market Share by Region (2024-2029)

Table 10. World HPHT Lab Grown Rough Diamonds Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World HPHT Lab Grown Rough Diamonds Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. HPHT Lab Grown Rough Diamonds Major Market Trends

Table 13. World HPHT Lab Grown Rough Diamonds Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World HPHT Lab Grown Rough Diamonds Consumption by Region (2018-2023) & (Tons)

Table 15. World HPHT Lab Grown Rough Diamonds Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World HPHT Lab Grown Rough Diamonds Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key HPHT Lab Grown Rough Diamonds Producers in 2022

Table 18. World HPHT Lab Grown Rough Diamonds Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key HPHT Lab Grown Rough Diamonds Producers in 2022

Table 20. World HPHT Lab Grown Rough Diamonds Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global HPHT Lab Grown Rough Diamonds Company Evaluation Quadrant

Table 22. World HPHT Lab Grown Rough Diamonds Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and HPHT Lab Grown Rough Diamonds Production Site of Key Manufacturer

Table 24. HPHT Lab Grown Rough Diamonds Market: Company Product Type Footprint

Table 25. HPHT Lab Grown Rough Diamonds Market: Company Product Application Footprint

Table 26. HPHT Lab Grown Rough Diamonds Competitive Factors

Table 27. HPHT Lab Grown Rough Diamonds New Entrant and Capacity Expansion Plans

Table 28. HPHT Lab Grown Rough Diamonds Mergers & Acquisitions Activity

Table 29. United States VS China HPHT Lab Grown Rough Diamonds Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China HPHT Lab Grown Rough Diamonds Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China HPHT Lab Grown Rough Diamonds Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 37. China Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers HPHT Lab Grown Rough Diamonds Production

(2018-2023) & (Tons)

Table 41. China Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 42. Rest of World Based HPHT Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 47. World HPHT Lab Grown Rough Diamonds Production Value by Clarity, (USD Million), 2018 & 2022 & 2029

Table 48. World HPHT Lab Grown Rough Diamonds Production by Clarity (2018-2023) & (Tons)

Table 49. World HPHT Lab Grown Rough Diamonds Production by Clarity (2024-2029) & (Tons)

Table 50. World HPHT Lab Grown Rough Diamonds Production Value by Clarity (2018-2023) & (USD Million)

Table 51. World HPHT Lab Grown Rough Diamonds Production Value by Clarity (2024-2029) & (USD Million)

Table 52. World HPHT Lab Grown Rough Diamonds Average Price by Clarity (2018-2023) & (US\$/Ton)

Table 53. World HPHT Lab Grown Rough Diamonds Average Price by Clarity (2024-2029) & (US\$/Ton)

Table 54. World HPHT Lab Grown Rough Diamonds Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World HPHT Lab Grown Rough Diamonds Production by Application (2018-2023) & (Tons)

Table 56. World HPHT Lab Grown Rough Diamonds Production by Application (2024-2029) & (Tons)

Table 57. World HPHT Lab Grown Rough Diamonds Production Value by Application (2018-2023) & (USD Million)

Table 58. World HPHT Lab Grown Rough Diamonds Production Value by Application (2024-2029) & (USD Million)

Table 59. World HPHT Lab Grown Rough Diamonds Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World HPHT Lab Grown Rough Diamonds Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. North Industries ZhongNan Diamond Basic Information, Manufacturing Base and Competitors

Table 62. North Industries ZhongNan Diamond Major Business

Table 63. North Industries ZhongNan Diamond HPHT Lab Grown Rough Diamonds Product and Services

Table 64. North Industries ZhongNan Diamond HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. North Industries ZhongNan Diamond Recent Developments/Updates

Table 66. North Industries ZhongNan Diamond Competitive Strengths & Weaknesses

Table 67. Henan Huanghe Whirlwind Basic Information, Manufacturing Base and Competitors

Table 68. Henan Huanghe Whirlwind Major Business

Table 69. Henan Huanghe Whirlwind HPHT Lab Grown Rough Diamonds Product and Services

Table 70. Henan Huanghe Whirlwind HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Henan Huanghe Whirlwind Recent Developments/Updates

Table 72. Henan Huanghe Whirlwind Competitive Strengths & Weaknesses

Table 73. Sino-Crystal Diamond Basic Information, Manufacturing Base and Competitors

Table 74. Sino-Crystal Diamond Major Business

Table 75. Sino-Crystal Diamond HPHT Lab Grown Rough Diamonds Product and Services

Table 76. Sino-Crystal Diamond HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Sino-Crystal Diamond Recent Developments/Updates

Table 78. Sino-Crystal Diamond Competitive Strengths & Weaknesses

Table 79. Henan Liliang Diamond Basic Information, Manufacturing Base and Competitors

Table 80. Henan Liliang Diamond Major Business

Table 81. Henan Liliang Diamond HPHT Lab Grown Rough Diamonds Product and Services

Table 82. Henan Liliang Diamond HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market

Share (2018-2023)

Table 83. Henan Liliang Diamond Recent Developments/Updates

Table 84. Henan Liliang Diamond Competitive Strengths & Weaknesses

Table 85. Ila Technologies Basic Information, Manufacturing Base and Competitors

Table 86. Ila Technologies Major Business

Table 87. Ila Technologies HPHT Lab Grown Rough Diamonds Product and Services

Table 88. Ila Technologies HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Ila Technologies Recent Developments/Updates

Table 90. New Diamond Technology Basic Information, Manufacturing Base and Competitors

Table 91. New Diamond Technology Major Business

Table 92. New Diamond Technology HPHT Lab Grown Rough Diamonds Product and Services

Table 93. New Diamond Technology HPHT Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 94. Global Key Players of HPHT Lab Grown Rough Diamonds Upstream (Raw Materials)

Table 95. HPHT Lab Grown Rough Diamonds Typical Customers

Table 96. HPHT Lab Grown Rough Diamonds Typical Distributors

LIST OF FIGURE

Figure 1. HPHT Lab Grown Rough Diamonds Picture

Figure 2. World HPHT Lab Grown Rough Diamonds Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World HPHT Lab Grown Rough Diamonds Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World HPHT Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 5. World HPHT Lab Grown Rough Diamonds Average Price (2018-2029) & (US\$/Ton)

Figure 6. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Region (2018-2029)

Figure 7. World HPHT Lab Grown Rough Diamonds Production Market Share by Region (2018-2029)

Figure 8. North America HPHT Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

- Figure 9. Europe HPHT Lab Grown Rough Diamonds Production (2018-2029) & (Tons)
- Figure 10. China HPHT Lab Grown Rough Diamonds Production (2018-2029) & (Tons)
- Figure 11. Japan HPHT Lab Grown Rough Diamonds Production (2018-2029) & (Tons)
- Figure 12. HPHT Lab Grown Rough Diamonds Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 15. World HPHT Lab Grown Rough Diamonds Consumption Market Share by Region (2018-2029)
- Figure 16. United States HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 17. China HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 18. Europe HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 19. Japan HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 20. South Korea HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 21. ASEAN HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 22. India HPHT Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)
- Figure 23. Producer Shipments of HPHT Lab Grown Rough Diamonds by Manufacturer Revenue (\$MM) and Market Share (%): 2022
- Figure 24. Global Four-firm Concentration Ratios (CR4) for HPHT Lab Grown Rough Diamonds Markets in 2022
- Figure 25. Global Four-firm Concentration Ratios (CR8) for HPHT Lab Grown Rough Diamonds Markets in 2022
- Figure 26. United States VS China: HPHT Lab Grown Rough Diamonds Production Value Market Share Comparison (2018 & 2022 & 2029)
- Figure 27. United States VS China: HPHT Lab Grown Rough Diamonds Production Market Share Comparison (2018 & 2022 & 2029)
- Figure 28. United States VS China: HPHT Lab Grown Rough Diamonds Consumption Market Share Comparison (2018 & 2022 & 2029)
- Figure 29. United States Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share 2022
- Figure 30. China Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share 2022

Figure 31. Rest of World Based Manufacturers HPHT Lab Grown Rough Diamonds Production Market Share 2022

Figure 32. World HPHT Lab Grown Rough Diamonds Production Value by Clarity, (USD Million), 2018 & 2022 & 2029

Figure 33. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Clarity in 2022

Figure 34. VVS

Figure 35. VS

Figure 36. SI

Figure 37. Others

Figure 38. World HPHT Lab Grown Rough Diamonds Production Market Share by Clarity (2018-2029)

Figure 39. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Clarity (2018-2029)

Figure 40. World HPHT Lab Grown Rough Diamonds Average Price by Clarity (2018-2029) & (US\$/Ton)

Figure 41. World HPHT Lab Grown Rough Diamonds Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Application in 2022

Figure 43. Gemstone

Figure 44. Industrial Applications

Figure 45. World HPHT Lab Grown Rough Diamonds Production Market Share by Application (2018-2029)

Figure 46. World HPHT Lab Grown Rough Diamonds Production Value Market Share by Application (2018-2029)

Figure 47. World HPHT Lab Grown Rough Diamonds Average Price by Application (2018-2029) & (US\$/Ton)

Figure 48. HPHT Lab Grown Rough Diamonds Industry Chain

Figure 49. HPHT Lab Grown Rough Diamonds Procurement Model

Figure 50. HPHT Lab Grown Rough Diamonds Sales Model

Figure 51. HPHT Lab Grown Rough Diamonds Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

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