

# Global HPHT Lab Grown Diamonds Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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# **Abstracts**

According to our (Global Info Research) latest study, the global HPHT Lab Grown Diamonds market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

HPHT (High-Pressure High-Temperature) lab-grown 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 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 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.

The Global Info Research report includes an overview of the development of the HPHT Lab Grown Diamonds industry chain, the market status of Gemstone (Rough, Polished), Industrial Applications (Rough, Polished), and key enterprises in developed and



developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of HPHT Lab Grown Diamonds.

Regionally, the report analyzes the HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds 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 (Tons), revenue generated, and market share of different by Type (e.g., Rough, Polished).

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 HPHT Lab Grown Diamonds market.

Regional Analysis: The report involves examining the HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to HPHT Lab Grown Diamonds:



Company Analysis: Report covers individual HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Gemstone, Industrial Applications).

Technology Analysis: Report covers specific technologies relevant to HPHT Lab Grown Diamonds. It assesses the current state, advancements, and potential future developments in HPHT Lab Grown Diamonds areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the HPHT Lab Grown Diamonds 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

HPHT Lab Grown Diamonds market is split by Type and by Application. For the period 2018-2029, 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

Rough

Polished

Market segment by Application

Gemstone



Industrial Applications

Major players covered

North Industries ZhongNan Diamond

Henan Huanghe Whirlwind

Sino-Crystal Diamond

Henan Liliang Diamond

Ila Technologies

New Diamond Technology

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 HPHT Lab Grown Diamonds product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HPHT Lab Grown Diamonds, with price, sales, revenue and global market share of HPHT Lab Grown Diamonds from 2018 to



2023.

Chapter 3, the HPHT Lab Grown Diamonds competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HPHT Lab Grown Diamonds breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022.and HPHT Lab Grown Diamonds market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 HPHT Lab Grown Diamonds.

Chapter 14 and 15, to describe HPHT Lab Grown Diamonds sales channel, distributors, customers, research findings and conclusion.



# Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Overview and Scope of HPHT Lab Grown Diamonds
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type

1.3.1 Overview: Global HPHT Lab Grown Diamonds Consumption Value by Type: 2018 Versus 2022 Versus 2029

- 1.3.2 Rough
- 1.3.3 Polished
- 1.4 Market Analysis by Application

1.4.1 Overview: Global HPHT Lab Grown Diamonds Consumption Value by

Application: 2018 Versus 2022 Versus 2029

- 1.4.2 Gemstone
- 1.4.3 Industrial Applications
- 1.5 Global HPHT Lab Grown Diamonds Market Size & Forecast
- 1.5.1 Global HPHT Lab Grown Diamonds Consumption Value (2018 & 2022 & 2029)
- 1.5.2 Global HPHT Lab Grown Diamonds Sales Quantity (2018-2029)
- 1.5.3 Global HPHT Lab Grown Diamonds Average Price (2018-2029)

# 2 MANUFACTURERS PROFILES

- 2.1 North Industries ZhongNan Diamond
  - 2.1.1 North Industries ZhongNan Diamond Details
  - 2.1.2 North Industries ZhongNan Diamond Major Business

2.1.3 North Industries ZhongNan Diamond HPHT Lab Grown Diamonds Product and Services

2.1.4 North Industries ZhongNan Diamond HPHT Lab Grown Diamonds Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 North Industries ZhongNan Diamond Recent Developments/Updates

- 2.2 Henan Huanghe Whirlwind
  - 2.2.1 Henan Huanghe Whirlwind Details
  - 2.2.2 Henan Huanghe Whirlwind Major Business
  - 2.2.3 Henan Huanghe Whirlwind HPHT Lab Grown Diamonds Product and Services

2.2.4 Henan Huanghe Whirlwind HPHT Lab Grown Diamonds Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Henan Huanghe Whirlwind Recent Developments/Updates

2.3 Sino-Crystal Diamond



2.3.1 Sino-Crystal Diamond Details

- 2.3.2 Sino-Crystal Diamond Major Business
- 2.3.3 Sino-Crystal Diamond HPHT Lab Grown Diamonds Product and Services
- 2.3.4 Sino-Crystal Diamond HPHT Lab Grown Diamonds Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Sino-Crystal Diamond Recent Developments/Updates

- 2.4 Henan Liliang Diamond
  - 2.4.1 Henan Liliang Diamond Details
- 2.4.2 Henan Liliang Diamond Major Business
- 2.4.3 Henan Liliang Diamond HPHT Lab Grown Diamonds Product and Services
- 2.4.4 Henan Liliang Diamond HPHT Lab Grown Diamonds Sales Quantity, Average
- Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.4.5 Henan Liliang Diamond Recent Developments/Updates

2.5 Ila Technologies

- 2.5.1 IIa Technologies Details
- 2.5.2 IIa Technologies Major Business
- 2.5.3 IIa Technologies HPHT Lab Grown Diamonds Product and Services
- 2.5.4 IIa Technologies HPHT Lab Grown Diamonds Sales Quantity, Average Price,
- Revenue, Gross Margin and Market Share (2018-2023)
- 2.5.5 IIa Technologies Recent Developments/Updates
- 2.6 New Diamond Technology
- 2.6.1 New Diamond Technology Details
- 2.6.2 New Diamond Technology Major Business
- 2.6.3 New Diamond Technology HPHT Lab Grown Diamonds Product and Services
- 2.6.4 New Diamond Technology HPHT Lab Grown Diamonds Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 New Diamond Technology Recent Developments/Updates

# 3 COMPETITIVE ENVIRONMENT: HPHT LAB GROWN DIAMONDS BY MANUFACTURER

- 3.1 Global HPHT Lab Grown Diamonds Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global HPHT Lab Grown Diamonds Revenue by Manufacturer (2018-2023)

3.3 Global HPHT Lab Grown Diamonds Average Price by Manufacturer (2018-2023)3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of HPHT Lab Grown Diamonds by Manufacturer Revenue (\$MM) and Market Share (%): 2022

- 3.4.2 Top 3 HPHT Lab Grown Diamonds Manufacturer Market Share in 2022
- 3.4.2 Top 6 HPHT Lab Grown Diamonds Manufacturer Market Share in 2022



3.5 HPHT Lab Grown Diamonds Market: Overall Company Footprint Analysis
3.5.1 HPHT Lab Grown Diamonds Market: Region Footprint
3.5.2 HPHT Lab Grown Diamonds Market: Company Product Type Footprint
3.5.3 HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds Market Size by Region
4.1.1 Global HPHT Lab Grown Diamonds Sales Quantity by Region (2018-2029)
4.1.2 Global HPHT Lab Grown Diamonds Consumption Value by Region (2018-2029)
4.1.3 Global HPHT Lab Grown Diamonds Average Price by Region (2018-2029)
4.2 North America HPHT Lab Grown Diamonds Consumption Value (2018-2029)
4.3 Europe HPHT Lab Grown Diamonds Consumption Value (2018-2029)
4.4 Asia-Pacific HPHT Lab Grown Diamonds Consumption Value (2018-2029)
4.5 South America HPHT Lab Grown Diamonds Consumption Value (2018-2029)
4.6 Middle East and Africa HPHT Lab Grown Diamonds Consumption Value (2018-2029)

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

5.1 Global HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)5.2 Global HPHT Lab Grown Diamonds Consumption Value by Type (2018-2029)5.3 Global HPHT Lab Grown Diamonds Average Price by Type (2018-2029)

### 6 MARKET SEGMENT BY APPLICATION

6.1 Global HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)6.2 Global HPHT Lab Grown Diamonds Consumption Value by Application (2018-2029)6.3 Global HPHT Lab Grown Diamonds Average Price by Application (2018-2029)

### 7 NORTH AMERICA

7.1 North America HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)7.2 North America HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)

7.3 North America HPHT Lab Grown Diamonds Market Size by Country7.3.1 North America HPHT Lab Grown Diamonds Sales Quantity by Country



(2018-2029)

7.3.2 North America HPHT Lab Grown Diamonds Consumption Value by Country (2018-2029)

- 7.3.3 United States Market Size and Forecast (2018-2029)
- 7.3.4 Canada Market Size and Forecast (2018-2029)
- 7.3.5 Mexico Market Size and Forecast (2018-2029)

# 8 EUROPE

8.1 Europe HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)

- 8.2 Europe HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)
- 8.3 Europe HPHT Lab Grown Diamonds Market Size by Country

8.3.1 Europe HPHT Lab Grown Diamonds Sales Quantity by Country (2018-2029)

8.3.2 Europe HPHT Lab Grown Diamonds Consumption Value by Country (2018-2029)

- 8.3.3 Germany Market Size and Forecast (2018-2029)
- 8.3.4 France Market Size and Forecast (2018-2029)
- 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
- 8.3.6 Russia Market Size and Forecast (2018-2029)
- 8.3.7 Italy Market Size and Forecast (2018-2029)

# 9 ASIA-PACIFIC

9.1 Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific HPHT Lab Grown Diamonds Market Size by Region

9.3.1 Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific HPHT Lab Grown Diamonds Consumption Value by Region (2018-2029)

- 9.3.3 China Market Size and Forecast (2018-2029)
- 9.3.4 Japan Market Size and Forecast (2018-2029)
- 9.3.5 Korea Market Size and Forecast (2018-2029)
- 9.3.6 India Market Size and Forecast (2018-2029)
- 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

# **10 SOUTH AMERICA**

10.1 South America HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)



10.2 South America HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)

10.3 South America HPHT Lab Grown Diamonds Market Size by Country

10.3.1 South America HPHT Lab Grown Diamonds Sales Quantity by Country (2018-2029)

10.3.2 South America HPHT Lab Grown Diamonds Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

# 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa HPHT Lab Grown Diamonds Market Size by Country

11.3.1 Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa HPHT Lab Grown Diamonds Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

### **12 MARKET DYNAMICS**

12.1 HPHT Lab Grown Diamonds Market Drivers

12.2 HPHT Lab Grown Diamonds Market Restraints

12.3 HPHT Lab Grown Diamonds 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**

Global HPHT Lab Grown Diamonds Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029



- 13.1 Raw Material of HPHT Lab Grown Diamonds and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of HPHT Lab Grown Diamonds
- 13.3 HPHT Lab Grown Diamonds Production Process
- 13.4 HPHT Lab Grown Diamonds Industrial Chain

### 14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 HPHT Lab Grown Diamonds Typical Distributors
14.3 HPHT Lab Grown Diamonds 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 HPHT Lab Grown Diamonds Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global HPHT Lab Grown Diamonds Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. North Industries ZhongNan Diamond Basic Information, Manufacturing Base and Competitors

Table 4. North Industries ZhongNan Diamond Major Business

Table 5. North Industries ZhongNan Diamond HPHT Lab Grown Diamonds Product and Services

Table 6. North Industries ZhongNan Diamond HPHT Lab Grown Diamonds Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

 Table 7. North Industries ZhongNan Diamond Recent Developments/Updates

Table 8. Henan Huanghe Whirlwind Basic Information, Manufacturing Base and Competitors

Table 9. Henan Huanghe Whirlwind Major Business

Table 10. Henan Huanghe Whirlwind HPHT Lab Grown Diamonds Product and Services

Table 11. Henan Huanghe Whirlwind HPHT Lab Grown Diamonds Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Henan Huanghe Whirlwind Recent Developments/Updates

Table 13. Sino-Crystal Diamond Basic Information, Manufacturing Base and Competitors

Table 14. Sino-Crystal Diamond Major Business

 Table 15. Sino-Crystal Diamond HPHT Lab Grown Diamonds Product and Services

Table 16. Sino-Crystal Diamond HPHT Lab Grown Diamonds Sales Quantity (Tons),

Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Sino-Crystal Diamond Recent Developments/Updates

Table 18. Henan Liliang Diamond Basic Information, Manufacturing Base and Competitors

 Table 19. Henan Liliang Diamond Major Business

Table 20. Henan Liliang Diamond HPHT Lab Grown Diamonds Product and Services Table 21. Henan Liliang Diamond HPHT Lab Grown Diamonds Sales Quantity (Tons),



Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Henan Liliang Diamond Recent Developments/Updates

Table 23. IIa Technologies Basic Information, Manufacturing Base and Competitors

Table 24. IIa Technologies Major Business

Table 25. IIa Technologies HPHT Lab Grown Diamonds Product and Services

Table 26. IIa Technologies HPHT Lab Grown Diamonds Sales Quantity (Tons), Average

Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Ila Technologies Recent Developments/Updates

Table 28. New Diamond Technology Basic Information, Manufacturing Base and Competitors

Table 29. New Diamond Technology Major Business

Table 30. New Diamond Technology HPHT Lab Grown Diamonds Product and Services

Table 31. New Diamond Technology HPHT Lab Grown Diamonds Sales Quantity

(Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. New Diamond Technology Recent Developments/Updates

Table 33. Global HPHT Lab Grown Diamonds Sales Quantity by Manufacturer (2018-2023) & (Tons)

Table 34. Global HPHT Lab Grown Diamonds Revenue by Manufacturer (2018-2023) & (USD Million)

Table 35. Global HPHT Lab Grown Diamonds Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 36. Market Position of Manufacturers in HPHT Lab Grown Diamonds, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 37. Head Office and HPHT Lab Grown Diamonds Production Site of Key Manufacturer

Table 38. HPHT Lab Grown Diamonds Market: Company Product Type Footprint

Table 39. HPHT Lab Grown Diamonds Market: Company Product Application Footprint

Table 40. HPHT Lab Grown Diamonds New Market Entrants and Barriers to Market Entry

Table 41. HPHT Lab Grown Diamonds Mergers, Acquisition, Agreements, and Collaborations

Table 42. Global HPHT Lab Grown Diamonds Sales Quantity by Region (2018-2023) & (Tons)

Table 43. Global HPHT Lab Grown Diamonds Sales Quantity by Region (2024-2029) & (Tons)

Table 44. Global HPHT Lab Grown Diamonds Consumption Value by Region (2018-2023) & (USD Million)



Table 45. Global HPHT Lab Grown Diamonds Consumption Value by Region (2024-2029) & (USD Million)

Table 46. Global HPHT Lab Grown Diamonds Average Price by Region (2018-2023) & (US\$/Ton)

Table 47. Global HPHT Lab Grown Diamonds Average Price by Region (2024-2029) & (US\$/Ton)

Table 48. Global HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 49. Global HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 50. Global HPHT Lab Grown Diamonds Consumption Value by Type (2018-2023) & (USD Million)

Table 51. Global HPHT Lab Grown Diamonds Consumption Value by Type (2024-2029) & (USD Million)

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

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

Table 54. Global HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 55. Global HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 56. Global HPHT Lab Grown Diamonds Consumption Value by Application (2018-2023) & (USD Million)

Table 57. Global HPHT Lab Grown Diamonds Consumption Value by Application (2024-2029) & (USD Million)

Table 58. Global HPHT Lab Grown Diamonds Average Price by Application (2018-2023) & (US\$/Ton)

Table 59. Global HPHT Lab Grown Diamonds Average Price by Application (2024-2029) & (US\$/Ton)

Table 60. North America HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 61. North America HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 62. North America HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 63. North America HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 64. North America HPHT Lab Grown Diamonds Sales Quantity by Country



(2018-2023) & (Tons)

Table 65. North America HPHT Lab Grown Diamonds Sales Quantity by Country (2024-2029) & (Tons)

Table 66. North America HPHT Lab Grown Diamonds Consumption Value by Country (2018-2023) & (USD Million)

Table 67. North America HPHT Lab Grown Diamonds Consumption Value by Country (2024-2029) & (USD Million)

Table 68. Europe HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 69. Europe HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 70. Europe HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 71. Europe HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 72. Europe HPHT Lab Grown Diamonds Sales Quantity by Country (2018-2023) & (Tons)

Table 73. Europe HPHT Lab Grown Diamonds Sales Quantity by Country (2024-2029) & (Tons)

Table 74. Europe HPHT Lab Grown Diamonds Consumption Value by Country (2018-2023) & (USD Million)

Table 75. Europe HPHT Lab Grown Diamonds Consumption Value by Country (2024-2029) & (USD Million)

Table 76. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 77. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 78. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 79. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 80. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Region (2018-2023) & (Tons)

Table 81. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity by Region (2024-2029) & (Tons)

Table 82. Asia-Pacific HPHT Lab Grown Diamonds Consumption Value by Region (2018-2023) & (USD Million)

Table 83. Asia-Pacific HPHT Lab Grown Diamonds Consumption Value by Region (2024-2029) & (USD Million)



Table 84. South America HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 85. South America HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 86. South America HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 87. South America HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 88. South America HPHT Lab Grown Diamonds Sales Quantity by Country (2018-2023) & (Tons)

Table 89. South America HPHT Lab Grown Diamonds Sales Quantity by Country (2024-2029) & (Tons)

Table 90. South America HPHT Lab Grown Diamonds Consumption Value by Country (2018-2023) & (USD Million)

Table 91. South America HPHT Lab Grown Diamonds Consumption Value by Country (2024-2029) & (USD Million)

Table 92. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Type (2018-2023) & (Tons)

Table 93. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Type (2024-2029) & (Tons)

Table 94. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Application (2018-2023) & (Tons)

Table 95. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Application (2024-2029) & (Tons)

Table 96. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Region (2018-2023) & (Tons)

Table 97. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity by Region (2024-2029) & (Tons)

Table 98. Middle East & Africa HPHT Lab Grown Diamonds Consumption Value by Region (2018-2023) & (USD Million)

Table 99. Middle East & Africa HPHT Lab Grown Diamonds Consumption Value by Region (2024-2029) & (USD Million)

Table 100. HPHT Lab Grown Diamonds Raw Material

Table 101. Key Manufacturers of HPHT Lab Grown Diamonds Raw Materials

Table 102. HPHT Lab Grown Diamonds Typical Distributors

Table 103. HPHT Lab Grown Diamonds Typical Customers



# **List Of Figures**

#### LIST OF FIGURES

Figure 1. HPHT Lab Grown Diamonds Picture Figure 2. Global HPHT Lab Grown Diamonds Consumption Value by Type, (USD Million), 2018 & 2022 & 2029 Figure 3. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Type in 2022 Figure 4. Rough Examples Figure 5. Polished Examples Figure 6. Global HPHT Lab Grown Diamonds Consumption Value by Application, (USD Million), 2018 & 2022 & 2029 Figure 7. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Application in 2022 Figure 8. Gemstone Examples Figure 9. Industrial Applications Examples Figure 10. Global HPHT Lab Grown Diamonds Consumption Value, (USD Million): 2018 & 2022 & 2029 Figure 11. Global HPHT Lab Grown Diamonds Consumption Value and Forecast (2018-2029) & (USD Million) Figure 12. Global HPHT Lab Grown Diamonds Sales Quantity (2018-2029) & (Tons) Figure 13. Global HPHT Lab Grown Diamonds Average Price (2018-2029) & (US\$/Ton) Figure 14. Global HPHT Lab Grown Diamonds Sales Quantity Market Share by Manufacturer in 2022 Figure 15. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Manufacturer in 2022 Figure 16. Producer Shipments of HPHT Lab Grown Diamonds by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021 Figure 17. Top 3 HPHT Lab Grown Diamonds Manufacturer (Consumption Value) Market Share in 2022 Figure 18. Top 6 HPHT Lab Grown Diamonds Manufacturer (Consumption Value) Market Share in 2022 Figure 19. Global HPHT Lab Grown Diamonds Sales Quantity Market Share by Region (2018-2029)Figure 20. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Region (2018-2029) Figure 21. North America HPHT Lab Grown Diamonds Consumption Value (2018-2029) & (USD Million)



Figure 22. Europe HPHT Lab Grown Diamonds Consumption Value (2018-2029) & (USD Million)

Figure 23. Asia-Pacific HPHT Lab Grown Diamonds Consumption Value (2018-2029) & (USD Million)

Figure 24. South America HPHT Lab Grown Diamonds Consumption Value (2018-2029) & (USD Million)

Figure 25. Middle East & Africa HPHT Lab Grown Diamonds Consumption Value (2018-2029) & (USD Million)

Figure 26. Global HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 27. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Type (2018-2029)

Figure 28. Global HPHT Lab Grown Diamonds Average Price by Type (2018-2029) & (US\$/Ton)

Figure 29. Global HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 30. Global HPHT Lab Grown Diamonds Consumption Value Market Share by Application (2018-2029)

Figure 31. Global HPHT Lab Grown Diamonds Average Price by Application (2018-2029) & (US\$/Ton)

Figure 32. North America HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 33. North America HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 34. North America HPHT Lab Grown Diamonds Sales Quantity Market Share by Country (2018-2029)

Figure 35. North America HPHT Lab Grown Diamonds Consumption Value Market Share by Country (2018-2029)

Figure 36. United States HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 37. Canada HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 38. Mexico HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 39. Europe HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 40. Europe HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 41. Europe HPHT Lab Grown Diamonds Sales Quantity Market Share by



Country (2018-2029)

Figure 42. Europe HPHT Lab Grown Diamonds Consumption Value Market Share by Country (2018-2029)

Figure 43. Germany HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 44. France HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 45. United Kingdom HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 46. Russia HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. Italy HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 49. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 50. Asia-Pacific HPHT Lab Grown Diamonds Sales Quantity Market Share by Region (2018-2029)

Figure 51. Asia-Pacific HPHT Lab Grown Diamonds Consumption Value Market Share by Region (2018-2029)

Figure 52. China HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 53. Japan HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 54. Korea HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 55. India HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Southeast Asia HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Australia HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. South America HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 59. South America HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 60. South America HPHT Lab Grown Diamonds Sales Quantity Market Share by Country (2018-2029)



Figure 61. South America HPHT Lab Grown Diamonds Consumption Value Market Share by Country (2018-2029)

Figure 62. Brazil HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 63. Argentina HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 64. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity Market Share by Type (2018-2029)

Figure 65. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity Market Share by Application (2018-2029)

Figure 66. Middle East & Africa HPHT Lab Grown Diamonds Sales Quantity Market Share by Region (2018-2029)

Figure 67. Middle East & Africa HPHT Lab Grown Diamonds Consumption Value Market Share by Region (2018-2029)

Figure 68. Turkey HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 69. Egypt HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 70. Saudi Arabia HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 71. South Africa HPHT Lab Grown Diamonds Consumption Value and Growth Rate (2018-2029) & (USD Million)

- Figure 72. HPHT Lab Grown Diamonds Market Drivers
- Figure 73. HPHT Lab Grown Diamonds Market Restraints
- Figure 74. HPHT Lab Grown Diamonds Market Trends
- Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of HPHT Lab Grown Diamonds in 2022

- Figure 77. Manufacturing Process Analysis of HPHT Lab Grown Diamonds
- Figure 78. HPHT Lab Grown Diamonds Industrial Chain
- Figure 79. Sales Quantity Channel: Direct to End-User vs Distributors
- Figure 80. Direct Channel Pros & Cons
- Figure 81. Indirect Channel Pros & Cons
- Figure 82. Methodology
- Figure 83. Research Process and Data Source



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