

# **Lab Grown Diamonds Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Polished, Rough), By Nature (Colorless, Colored), By Manufacturing Process, By Application**

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## **Abstracts**

The Lab Grown Diamonds Market is valued at USD 23.2 billion in 2025 and is projected to grow at a CAGR of 9.6% to reach USD 52.9 billion by 2034. The Lab Grown Diamonds Market focuses on the production and sale of diamonds created using high-pressure high-temperature (HPHT) or chemical vapor deposition (CVD) processes, offering the same physical and chemical properties as mined diamonds. Initially viewed as synthetic alternatives, lab-grown diamonds have evolved into a premium segment of the jewelry industry, driven by ethical, environmental, and price considerations. They are widely used in engagement rings, fashion jewelry, and increasingly in industrial applications. With comparable brilliance to natural diamonds and growing consumer acceptance, the market is reshaping global perceptions of luxury, authenticity, and value in gemology and fine jewelry. The lab grown diamonds market saw notable expansion as major retailers—like Pandora and Brilliant Earth—deepened their commitment to lab-grown collections. Global consumer sentiment shifted favorably due to sustainability messaging, price transparency, and the avoidance of conflict-related mining. Jewelry designers embraced lab diamonds for their versatility and consistent quality, allowing for creative customization. Meanwhile, innovations in CVD technology brought down production costs and improved gemstone clarity. Certification bodies such as IGI and GIA expanded lab diamond grading, enhancing buyer confidence. India and China ramped up manufacturing capacities, making Asia a major hub for both export and local consumption. The lab grown diamonds market is expected to evolve through deeper brand differentiation, improved production scalability, and broader industrial use. As consumers increasingly demand transparency and traceability, blockchain and QR-coded diamond passports will become standard. Fashion-forward collaborations and

luxury branding strategies will help distinguish lab-grown gems from their natural counterparts, rather than simply compete with them. Industrial sectors—like electronics, optics, and precision tooling—will expand demand for synthetic diamonds thanks to their thermal and abrasion resistance. As price points stabilize and consumer values evolve, lab grown diamonds are likely to become a cornerstone of the sustainable luxury market.

## Key Insights Lab Grown Diamonds Market

OG Analysis highlights the growing trend of luxury jewelry brands embracing lab grown diamonds as a sustainable, ethically sourced alternative aligned with Gen Z and millennial values.

Fashion collaborations with lab-grown diamond brands are trending, repositioning lab diamonds as chic, modern, and versatile—not just affordable substitutes for mined diamonds.

According to OG Analysis, technological improvements in CVD methods are trending, allowing for better clarity, color control, and larger carat sizes at lower production costs.

QR-coded traceability systems and blockchain-based certification are trending, offering consumers full transparency into the origin and lifecycle of their lab-grown diamond purchases.

Use of lab diamonds in industrial sectors—such as semiconductor manufacturing, aerospace, and medical devices—is trending due to their superior hardness and thermal conductivity.

OG Analysis identifies ethical consumerism and sustainability awareness as key drivers encouraging a shift away from mined diamonds toward lab-grown alternatives in jewelry purchasing.

Lower cost and pricing transparency are motivating consumers to opt for lab-grown diamonds that offer better value without compromising on quality or appearance, says OG Analysis.

OG Analysis notes that expansion of e-commerce jewelry platforms is boosting access and visibility for lab-grown diamond products across a wide spectrum of

global buyers.

Government policies and trade incentives in manufacturing countries like India are supporting the growth of lab diamond production infrastructure and export opportunities.

OG Analysis highlights ongoing confusion among consumers regarding the difference between lab-grown and natural diamonds, which can impact perception, trust, and resale value.

According to OG Analysis, margin compression from falling lab diamond prices is challenging smaller producers, especially those unable to compete on technology, branding, or scale.

## Lab Grown Diamonds Market Segmentation

### By Type

Polished

Rough

### By Nature

Colorless

Colored

### By Manufacturing Process

High Pressure High Temperature (HPHT)

Chemical Vapor Deposition (CVD)

### By Application

Construction and Mining

Jewelry

Healthcare

Electronics

Others Applications

### Key Companies Analysed

De Beers Group

Swarovski AG

Henan Huanghe Whirlwind Co. Ltd.

Diamond Foundry Inc.

Chatham Created Gems

New Diamond Technology (NDT)

MiaDonna

Ila Technologies

Washington Diamonds Corporation

Clean Origin LLC.

WD Labs

Apollo Diamond Inc.

Ada Diamonds

ABD Diamonds Pvt. Ltd.

ALTR Created Diamonds

Scio Diamond Technology Corporation

Diam Concept

Applied Diamond Inc.

Mittal Diamonds

Pure Grown Diamonds

Renaissance Diamonds

M7D Corporation

Taidiam Technology

BDI - Brevard Diamonds Inc.

AOTC Group

Fenix Diamonds

Tolkowsky Diamonds

EcoStar Diamond

Tairus Created Diamonds

## Lab Grown Diamonds Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of

international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Lab Grown Diamonds Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Lab Grown Diamonds market data and outlook to 2034

United States

Canada

Mexico

Europe — Lab Grown Diamonds market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Lab Grown Diamonds market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Lab Grown Diamonds market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Lab Grown Diamonds market data and outlook to

2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Lab Grown Diamonds value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Lab Grown Diamonds industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Lab Grown Diamonds Market Report

Global Lab Grown Diamonds market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Lab Grown Diamonds trade, costs, and supply chains

Lab Grown Diamonds market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Lab Grown Diamonds market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Lab Grown Diamonds market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Lab Grown Diamonds supply chain analysis

Lab Grown Diamonds trade analysis, Lab Grown Diamonds market price analysis, and Lab Grown Diamonds supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Lab Grown Diamonds market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

## Contents

### 1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

### 2. GLOBAL LAB GROWN DIAMONDS MARKET SUMMARY, 2025

- 2.1 Lab Grown Diamonds Industry Overview
  - 2.1.1 Global Lab Grown Diamonds Market Revenues (In US\$ billion)
- 2.2 Lab Grown Diamonds Market Scope
- 2.3 Research Methodology

### 3. LAB GROWN DIAMONDS MARKET INSIGHTS, 2024-2034

- 3.1 Lab Grown Diamonds Market Drivers
- 3.2 Lab Grown Diamonds Market Restraints
- 3.3 Lab Grown Diamonds Market Opportunities
- 3.4 Lab Grown Diamonds Market Challenges
- 3.5 Tariff Impact on Global Lab Grown Diamonds Supply Chain Patterns

### 4. LAB GROWN DIAMONDS MARKET ANALYTICS

- 4.1 Lab Grown Diamonds Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Lab Grown Diamonds Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Lab Grown Diamonds Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Lab Grown Diamonds Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Lab Grown Diamonds Market
  - 4.5.1 Lab Grown Diamonds Industry Attractiveness Index, 2025
  - 4.5.2 Lab Grown Diamonds Supplier Intelligence
  - 4.5.3 Lab Grown Diamonds Buyer Intelligence
  - 4.5.4 Lab Grown Diamonds Competition Intelligence
  - 4.5.5 Lab Grown Diamonds Product Alternatives and Substitutes Intelligence
  - 4.5.6 Lab Grown Diamonds Market Entry Intelligence

### 5. GLOBAL LAB GROWN DIAMONDS MARKET STATISTICS – INDUSTRY

## **REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034**

5.1 World Lab Grown Diamonds Market Size, Potential and Growth Outlook, 2024-2034 (\$ billion)

5.1 Global Lab Grown Diamonds Sales Outlook and CAGR Growth By Type, 2024-2034 (\$ billion)

5.2 Global Lab Grown Diamonds Sales Outlook and CAGR Growth By Nature, 2024-2034 (\$ billion)

5.3 Global Lab Grown Diamonds Sales Outlook and CAGR Growth By Manufacturing Process, 2024- 2034 (\$ billion)

5.4 Global Lab Grown Diamonds Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)

5.5 Global Lab Grown Diamonds Market Sales Outlook and Growth by Region, 2024-2034 (\$ billion)

## **6. ASIA PACIFIC LAB GROWN DIAMONDS INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK**

6.1 Asia Pacific Lab Grown Diamonds Market Insights, 2025

6.2 Asia Pacific Lab Grown Diamonds Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Lab Grown Diamonds Market Revenue Forecast By Nature, 2024- 2034 (USD billion)

6.4 Asia Pacific Lab Grown Diamonds Market Revenue Forecast By Manufacturing Process, 2024- 2034 (USD billion)

6.5 Asia Pacific Lab Grown Diamonds Market Revenue Forecast By Application, 2024-2034 (USD billion)

6.6 Asia Pacific Lab Grown Diamonds Market Revenue Forecast by Country, 2024-2034 (USD billion)

6.6.1 China Lab Grown Diamonds Market Size, Opportunities, Growth 2024- 2034

6.6.2 India Lab Grown Diamonds Market Size, Opportunities, Growth 2024- 2034

6.6.3 Japan Lab Grown Diamonds Market Size, Opportunities, Growth 2024- 2034

6.6.4 Australia Lab Grown Diamonds Market Size, Opportunities, Growth 2024- 2034

## **7. EUROPE LAB GROWN DIAMONDS MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034**

7.1 Europe Lab Grown Diamonds Market Key Findings, 2025

7.2 Europe Lab Grown Diamonds Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Lab Grown Diamonds Market Size and Percentage Breakdown By Nature, 2024- 2034 (USD billion)

7.4 Europe Lab Grown Diamonds Market Size and Percentage Breakdown By Manufacturing Process, 2024- 2034 (USD billion)

7.5 Europe Lab Grown Diamonds Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.6 Europe Lab Grown Diamonds Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.6.1 Germany Lab Grown Diamonds Market Size, Trends, Growth Outlook to 2034

7.6.2 United Kingdom Lab Grown Diamonds Market Size, Trends, Growth Outlook to 2034

7.6.2 France Lab Grown Diamonds Market Size, Trends, Growth Outlook to 2034

7.6.2 Italy Lab Grown Diamonds Market Size, Trends, Growth Outlook to 2034

7.6.2 Spain Lab Grown Diamonds Market Size, Trends, Growth Outlook to 2034

## **8. NORTH AMERICA LAB GROWN DIAMONDS MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034**

8.1 North America Snapshot, 2025

8.2 North America Lab Grown Diamonds Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Lab Grown Diamonds Market Analysis and Outlook By Nature, 2024- 2034 (\$ billion)

8.4 North America Lab Grown Diamonds Market Analysis and Outlook By Manufacturing Process, 2024- 2034 (\$ billion)

8.5 North America Lab Grown Diamonds Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.6 North America Lab Grown Diamonds Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.6.1 United States Lab Grown Diamonds Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.6.1 Canada Lab Grown Diamonds Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.6.1 Mexico Lab Grown Diamonds Market Size, Share, Growth Trends and Forecast, 2024- 2034

## **9. SOUTH AND CENTRAL AMERICA LAB GROWN DIAMONDS MARKET DRIVERS,**

## **CHALLENGES, AND FUTURE PROSPECTS**

9.1 Latin America Lab Grown Diamonds Market Data, 2025

9.2 Latin America Lab Grown Diamonds Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Lab Grown Diamonds Market Future By Nature, 2024- 2034 (\$ billion)

9.4 Latin America Lab Grown Diamonds Market Future By Manufacturing Process, 2024- 2034 (\$ billion)

9.5 Latin America Lab Grown Diamonds Market Future By Application, 2024- 2034 (\$ billion)

9.6 Latin America Lab Grown Diamonds Market Future by Country, 2024- 2034 (\$ billion)

9.6.1 Brazil Lab Grown Diamonds Market Size, Share and Opportunities to 2034

9.6.2 Argentina Lab Grown Diamonds Market Size, Share and Opportunities to 2034

## **10. MIDDLE EAST AFRICA LAB GROWN DIAMONDS MARKET OUTLOOK AND GROWTH PROSPECTS**

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Lab Grown Diamonds Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Lab Grown Diamonds Market Statistics By Nature, 2024- 2034 (USD billion)

10.4 Middle East Africa Lab Grown Diamonds Market Statistics By Manufacturing Process, 2024- 2034 (USD billion)

10.5 Middle East Africa Lab Grown Diamonds Market Statistics By Manufacturing Process, 2024- 2034 (USD billion)

10.6 Middle East Africa Lab Grown Diamonds Market Statistics by Country, 2024- 2034 (USD billion)

10.6.1 Middle East Lab Grown Diamonds Market Value, Trends, Growth Forecasts to 2034

10.6.2 Africa Lab Grown Diamonds Market Value, Trends, Growth Forecasts to 2034

## **11. LAB GROWN DIAMONDS MARKET STRUCTURE AND COMPETITIVE LANDSCAPE**

11.1 Key Companies in Lab Grown Diamonds Industry

11.2 Lab Grown Diamonds Business Overview

11.3 Lab Grown Diamonds Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

## **12 APPENDIX**

12.1 Global Lab Grown Diamonds Market Volume (Tons)

12.1 Global Lab Grown Diamonds Trade and Price Analysis

12.2 Lab Grown Diamonds Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Lab Grown Diamonds Industry Report Sources and Methodology

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