

Lithotripsy Device Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Extracorporeal Shock Wave Lithotripsy Devices, Intracorporeal Lithotripsy Devices), By Applications (Kidney Stones, Ureteral Stones, Pancreatic Stones, Bile Duct Stones, Other Applications), By End-User

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Abstracts

The Lithotripsy Device Market is valued at USD 2.4 billion in 2025 and is projected to grow at a CAGR of 6.1% to reach USD 4.1 billion by 2034. The lithotripsy device market focuses on medical systems used to treat kidney stones and urinary tract stones through non-invasive or minimally invasive procedures. The most common modalities include extracorporeal shock wave lithotripsy (ESWL), laser lithotripsy, and electrohydraulic techniques. These devices help fragment stones into smaller pieces, allowing them to be naturally expelled or easily removed. As urolithiasis incidence continues to rise due to dietary changes, dehydration, and lifestyle factors, lithotripsy has become a preferred solution because it significantly reduces patient recovery time and avoids traditional surgery. The market spans hospitals, specialty clinics, and ambulatory surgical centers across both developed and emerging economies. The lithotripsy device market witnessed an upsurge in demand as healthcare systems expanded urology services in response to increasing cases of kidney stones. Technological upgrades included the launch of portable ESWL machines and next-generation laser systems with enhanced pulse modulation and lower collateral tissue impact. The adoption of fiberoptic-based laser lithotripsy increased due to its precision and efficacy in handling complex stones. In North America and Europe, AI-based image-guided lithotripsy systems saw pilot adoption, improving stone localization and procedural planning. Meanwhile, Asia-Pacific markets emphasized cost-effective devices and mobile systems for outreach programs in remote areas. The market is

expected to pivot toward robotic-assisted lithotripsy systems and integration of real-time diagnostics to enhance procedural accuracy. Increased preference for outpatient and day-care procedures will support the adoption of compact, low-maintenance machines. Market players will focus on training programs and equipment-as-a-service models to penetrate mid-tier and small-scale healthcare centers. Green laser and holmium:YAG-based lithotripsy systems will dominate, offering improved safety and shorter treatment durations. As healthcare digitalization deepens, remote monitoring and tele-urology integration with lithotripsy platforms will become more common, particularly in value-based care environments.

Key Insights Lithotripsy Device Market

Portable and outpatient-friendly lithotripsy systems are increasing access in decentralized and rural healthcare facilities.

AI-powered imaging and real-time diagnostics are enhancing precision and reducing procedural time in stone removal.

Holmium and green laser lithotripsy technologies are improving fragmentation efficacy and lowering complications.

Integration of lithotripsy with robotic surgery platforms is expanding in high-volume specialty centers.

Pay-per-use and leasing models are enabling broader adoption among mid-size hospitals and urology clinics.

Rising incidence of urolithiasis due to sedentary lifestyles and poor hydration is increasing procedure volumes globally.

Minimally invasive procedures are preferred by patients for faster recovery and reduced hospitalization costs.

Technological innovations are making lithotripsy safer, more accurate, and accessible to a wider range of providers.

Government investment in urological care infrastructure is expanding access to advanced stone management devices.

High equipment cost and maintenance requirements can limit adoption in low-resource settings and small clinics.

Lack of specialized training for operators can affect treatment consistency and limit clinical outcomes across diverse healthcare environments.

Lithotripsy Device Market Segmentation

By Type

Extracorporeal Shock Wave Lithotripsy Devices

Intracorporeal Lithotripsy Devices

By Applications

Kidney Stones

Ureteral Stones

Pancreatic Stones

Bile Duct Stones

Other Applications

By End-User

Hospitals

Ambulatory Surgical Centers

Other End Users

Key Companies Analysed

Siemens AG

Becton Dickinson and Company

Boston Scientific Corporation

Cook Medical LLC

Shockwave Medical Inc.

Lumenis Ltd.

EDAP TMS S.A.

Dornier MedTech GmbH

Electro Medical Systems S.A.

Allengers Medical Systems Limited

DirexGroup

Medispec Ltd.

Elmed Medical Systems Ltd.

Convergent Laser Technologies

MTS Medical

NOVAmedtek LLC

EMD Medical Technologies

NIDHI Meditech Systems

Olympus Scientific Solutions Americas Corporation

Richard Wolf India Private Ltd.

Karl Storz SE & Co. KG

Technomed Systems Private Limited

Shenzhen Wikkon Medical Apparatus Co. Ltd.

Inceler Medikal Ltd. Sti

Cliniva Healthcare

C. R. Bard Inc.

E.M.S. Electro Medical Systems S.A.

MACHIDA Endoscope Co. Ltd.

Medtronic plc

Aymed Medical Technology Co. Ltd.

Proteus Digital Health Inc.

Lithotripsy Device 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.

Lithotripsy Device 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 — Lithotripsy Device market data and outlook to 2034

United States

Canada

Mexico

Europe — Lithotripsy Device market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Lithotripsy Device market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Lithotripsy Device market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Lithotripsy Device 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 Lithotripsy Device 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 Lithotripsy Device 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 Lithotripsy Device Market Report

Global Lithotripsy Device market size and growth projections (CAGR),
2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Lithotripsy Device trade, costs, and supply chains

Lithotripsy Device market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Lithotripsy Device market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Lithotripsy Device market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Lithotripsy Device supply chain analysis

Lithotripsy Device trade analysis, Lithotripsy Device market price analysis, and Lithotripsy Device supply/demand dynamics

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

Latest Lithotripsy Device 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.

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Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL LITHOTRIPSY DEVICE MARKET SUMMARY, 2025

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

3. LITHOTRIPSY DEVICE MARKET INSIGHTS, 2024-2034

- 3.1 Lithotripsy Device Market Drivers
- 3.2 Lithotripsy Device Market Restraints
- 3.3 Lithotripsy Device Market Opportunities
- 3.4 Lithotripsy Device Market Challenges
- 3.5 Tariff Impact on Global Lithotripsy Device Supply Chain Patterns

4. LITHOTRIPSY DEVICE MARKET ANALYTICS

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

5. GLOBAL LITHOTRIPSY DEVICE MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Lithotripsy Device Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Lithotripsy Device Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)

5.2 Global Lithotripsy Device Sales Outlook and CAGR Growth By Applications, 2024- 2034 (\$ billion)

5.3 Global Lithotripsy Device Sales Outlook and CAGR Growth By End-User, 2024- 2034 (\$ billion)

5.4 Global Lithotripsy Device Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC LITHOTRIPSY DEVICE INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Lithotripsy Device Market Insights, 2025

6.2 Asia Pacific Lithotripsy Device Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Lithotripsy Device Market Revenue Forecast By Applications, 2024- 2034 (USD billion)

6.4 Asia Pacific Lithotripsy Device Market Revenue Forecast By End-User, 2024- 2034 (USD billion)

6.5 Asia Pacific Lithotripsy Device Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.5.1 China Lithotripsy Device Market Size, Opportunities, Growth 2024- 2034

6.5.2 India Lithotripsy Device Market Size, Opportunities, Growth 2024- 2034

6.5.3 Japan Lithotripsy Device Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Lithotripsy Device Market Size, Opportunities, Growth 2024- 2034

7. EUROPE LITHOTRIPSY DEVICE MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Lithotripsy Device Market Key Findings, 2025

7.2 Europe Lithotripsy Device Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Lithotripsy Device Market Size and Percentage Breakdown By Applications, 2024- 2034 (USD billion)

7.4 Europe Lithotripsy Device Market Size and Percentage Breakdown By End-User, 2024- 2034 (USD billion)

7.5 Europe Lithotripsy Device Market Size and Percentage Breakdown by Country,

2024- 2034 (USD billion)

7.5.1 Germany Lithotripsy Device Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Lithotripsy Device Market Size, Trends, Growth Outlook to 2034

7.5.2 France Lithotripsy Device Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Lithotripsy Device Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Lithotripsy Device Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA LITHOTRIPSY DEVICE MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Lithotripsy Device Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Lithotripsy Device Market Analysis and Outlook By Applications, 2024- 2034 (\$ billion)

8.4 North America Lithotripsy Device Market Analysis and Outlook By End-User, 2024- 2034 (\$ billion)

8.5 North America Lithotripsy Device Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Lithotripsy Device Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Lithotripsy Device Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Lithotripsy Device Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA LITHOTRIPSY DEVICE MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Lithotripsy Device Market Data, 2025

9.2 Latin America Lithotripsy Device Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Lithotripsy Device Market Future By Applications, 2024- 2034 (\$ billion)

9.4 Latin America Lithotripsy Device Market Future By End-User, 2024- 2034 (\$ billion)

9.5 Latin America Lithotripsy Device Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Lithotripsy Device Market Size, Share and Opportunities to 2034

9.5.2 Argentina Lithotripsy Device Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA LITHOTRIPSY DEVICE MARKET OUTLOOK AND

GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Lithotripsy Device Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Lithotripsy Device Market Statistics By Applications, 2024- 2034 (USD billion)

10.4 Middle East Africa Lithotripsy Device Market Statistics By End-User, 2024- 2034 (USD billion)

10.5 Middle East Africa Lithotripsy Device Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Lithotripsy Device Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Lithotripsy Device Market Value, Trends, Growth Forecasts to 2034

11. LITHOTRIPSY DEVICE MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in Lithotripsy Device Industry

11.2 Lithotripsy Device Business Overview

11.3 Lithotripsy Device Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global Lithotripsy Device Market Volume (Tons)

12.1 Global Lithotripsy Device Trade and Price Analysis

12.2 Lithotripsy Device Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Lithotripsy Device Industry Report Sources and Methodology

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