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Lithotripsy Devices Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Lithotripsy Devices Market generated USD 1.6 billion in 2024 and is poised to grow at a CAGR of 6.3% from 2025 to 2034. Lithotripsy devices have emerged as vital tools in modern urology, offering a reliable, non-invasive solution to break down stones that form in the kidneys, bladder, pancreas, and bile ducts. These devices utilize advanced energy sources such as shock waves and ultrasound to fragment stones into smaller pieces, enabling natural expulsion or simple removal. As more people face urological conditions like kidney stones and gallstones, primarily due to rising obesity rates, metabolic disorders, and poor dietary habits, the demand for efficient stone management solutions is rapidly growing.

Increasing awareness among patients about minimally invasive treatments, coupled with technological advancements in lithotripsy devices, is creating favorable conditions for market expansion. The aging global population, which is more susceptible to stone formation due to comorbidities like diabetes and hypertension, is also expected to drive consistent demand for these devices over the next decade. Healthcare providers are increasingly adopting lithotripsy technologies that offer precise, targeted treatment with reduced hospitalization time, leading to better patient outcomes. The ongoing shift toward outpatient care and non-invasive therapies is further propelling the market forward as hospitals and specialty clinics seek to minimize procedural risks and optimize recovery periods for patients.

The market is primarily segmented into intracorporeal lithotripsy devices and extracorporeal shock wave lithotripsy devices, both of which cater to various clinical needs. ESWL devices generated USD 841.8 million in 2024 and are projected to grow at a CAGR of 6.2% from 2025 to 2034. These devices remain highly preferred among healthcare providers due to their ability to break stones externally without surgical incisions. The non-invasive nature of ESWL procedures reduces the risk of infections

and complications, supporting faster patient recovery and increasing their acceptance across hospitals and urology centers. ESWL's appeal lies in its ability to provide high-precision stone targeting using advanced imaging technologies, minimizing damage to surrounding tissues.

Lithotripsy devices are used to treat various types of stones, including those located in the kidneys, ureters, pancreas, and bile ducts, with kidney stones accounting for a 43.1% market share in 2024. This segment is projected to reach USD 1.3 billion by 2034, driven by the growing prevalence of kidney stone cases linked to poor hydration, unhealthy diets, and sedentary lifestyles. In addition to dietary and lifestyle influences, genetic predisposition and the increased use of medications that may lead to stone formation are adding to the caseload worldwide.

The U.S. Lithotripsy Devices Market alone is expected to generate USD 1.1 billion by 2034, fueled by the adoption of next-generation lithotripsy systems that combine superior efficacy with patient comfort. The introduction of portable and compact lithotripsy devices that allow for quick setup and treatment, coupled with advancements in real-time imaging guidance, has significantly enhanced the efficiency of procedures performed in outpatient and ambulatory settings. As healthcare providers in the U.S. prioritize minimally invasive solutions, the demand for lithotripsy devices continues to climb, reflecting a broader trend toward patient-centric care and improved clinical outcomes.

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Contents

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

4.1 Introduction
4.2 Company market share analysis
4.3 Company matrix analysis
4.4 Competitive analysis of major market players
4.5 Competitive positioning matrix
4.6 Strategy dashboard

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY DEVICE TYPE, 2021 – 2034 ($ MN)

5.1 Key trends
5.2 Extracorporeal shock wave lithotripsy devices
5.3 Intracorporeal lithotripsy devices
  5.3.1 Laser lithotripsy devices
  5.3.2 Electrohydraulic lithotripsy devices
  5.3.3 Ultrasonic lithotripsy devices
  5.3.4 Mechanical lithotripsy devices

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2034 ($ MN)

6.1 Key trends
6.2 Kidney stones
6.3 Ureteral stones
6.4 Pancreatic stones
6.5 Bile duct stones

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2034 ($ MN)

7.1 Key trends
7.2 Hospitals
7.3 Ambulatory surgical centers
7.4 Other end use

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 ($

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MN)

CHAPTER 9 COMPANY PROFILES

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9.10 Medispec
9.11 MTS Medical
9.12 Olympus
9.13 Richard Wolf
9.14 Siemens Healthineers
9.15 STORZ MEDICAL

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