

# Global Microwave Ablation Market Size Study, By Component Type (Generator, Power Distribution System, Accessories), By Application (Oncology, Cardiovascular, Urology, Orthopedic, Others), By End-use (Hospitals, Ambulatory Surgery Centers, Research Laboratories), and Regional Forecasts 2024-2032

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## Abstracts

The global microwave ablation market was valued at USD 382.75 million in 2023 and is projected to expand at a CAGR of 14.2% from 2024 to 2032. The increasing prevalence of oncological, cardiovascular, and orthopedic disorders, coupled with advancements in minimally invasive procedures, is driving market expansion. Microwave ablation (MWA) is emerging as a preferred therapeutic intervention due to its precision, shorter recovery time, and lower procedural risks.

Growing demand for minimally invasive treatments is a major driver, with approximately 65% of oncology patients opting for MWA-based interventions over traditional surgeries. This is especially evident in oncology and cardiovascular applications, where real-time imaging guidance and artificial intelligence (AI) integration are enhancing procedural success. Increasing healthcare investments and government support for cancer treatment programs are also fostering growth, particularly in North America, Europe, and the Asia Pacific region.

Additionally, technological advancements in power distribution systems, multi-probe antenna configurations, and temperature-controlled ablation techniques are enabling better tumor targeting and tissue coagulation. Leading companies such as Medtronic, AngioDynamics, and Johnson & Johnson Services, Inc. are heavily investing in R&D

efforts to develop next-generation MWA devices with enhanced energy delivery mechanisms.

**Regional Insights-** The North America microwave ablation market dominated the industry in 2024, accounting for 31.2% of the global revenue. The U.S. leads the market, with strong government backing for advanced cancer treatments, technological innovation, and growing adoption of image-guided microwave ablation procedures. The Centers for Disease Control and Prevention (CDC) reports that cancer remains a leading cause of death, thereby reinforcing the need for effective minimally invasive treatments.

Europe is projected to experience substantial growth, driven by rising cancer incidences, aging populations, and favorable reimbursement policies. Countries such as the UK, Germany, and France are making significant investments in healthcare infrastructure and precision medicine, promoting MWA as a standard treatment modality in oncology and cardiology.

The Asia Pacific region is expected to register the fastest CAGR, fueled by rising healthcare expenditures, a growing patient base, and increasing adoption of novel ablation technologies. Countries like China, India, and Japan are emerging as high-potential markets, with government-backed cancer awareness campaigns and expanding access to cutting-edge medical technologies.

#### Major Market Players Included in this Report:

AngioDynamics

Medtronic

Emblation Ltd.

HUBER+SUHNER

Johnson & Johnson Services, Inc.

MedWaves, Inc.

SympleSurgical Inc.

Mermaid Medical

Varian Medical Systems, Inc.

Terumo Corporation

Boston Scientific Corporation

NeuWave Medical Inc. (Ethicon, a Johnson & Johnson subsidiary)

Siemens Healthineers AG

Stryker Corporation

Hologic, Inc.

The Detailed Segments and Sub-Segment of the Market are Explained Below:

By Component Type:

Generator

Power Distribution System

Accessories

By Application:

Oncology

Cardiovascular

Urology

Orthopedic

Others

**By End-use:**

Hospitals

Ambulatory Surgery Centers

Research Laboratories

**By Region:****North America**

U.S.

Canada

Mexico

**Europe**

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

## Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

## Latin America

Brazil

Argentina

## Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Years Considered for the Study Are as Follows:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024-2032

### Key Takeaways:

Market Estimates & Forecast for 10 years (2022-2032).

Annualized revenue and regional-level analysis for each market segment.

Detailed geographical insights, including country-level analysis across major regions.

Competitive landscape with key market players, their strategies, and market share analysis.

Technological advancements in MWA systems, including multi-probe configurations and real-time imaging integration.

Analysis of key business strategies and recommendations on future market approaches.

Regulatory compliance and healthcare reimbursement trends.

Comprehensive demand-side and supply-side market analysis.

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