

Global MRI-compatible Microwave Ablation Needles Market Growth 2026-2032

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Abstracts

The global MRI-compatible Microwave Ablation Needles market size is predicted to grow from US\$ 12.08 million in 2025 to US\$ 18.88 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

MRI-compatible Microwave Ablation Needles are single-use interventional devices designed to operate under specified magnetic-resonance conditions and deliver microwave energy percutaneously into target tissue to create a controlled zone of thermal coagulation. A typical device consists of a puncture shaft, microwave antenna, coaxial transmission cable, insulation, connectors, a handle, and optional cooling or temperature-monitoring components. It must operate together with a compatible microwave generator and magnetic-resonance imaging system. Compared with conventional microwave applicators, its materials, cable configuration and electromagnetic design must minimize magnetic attraction, induced heating, imaging artifacts and interference between the ablation and MRI systems. This enables clinicians to perform image-guided needle placement, monitor the treatment region and evaluate the result. The scope mainly covers minimally invasive ablation of liver, kidney, lung and other solid lesions, while excluding conventional CT- or ultrasound-only applicators, radiofrequency electrodes and cryoablation probes. In 2025, global MRI-compatible Microwave Ablation Needles production reached approximately 56 k units. The average gross profit margin of this product is 55%.

The continuing shift toward minimally invasive, precise and image-guided cancer treatment is creating a specialized growth opportunity for MRI-compatible microwave ablation needles. MRI offers strong soft-tissue visualization without ionizing radiation and can display lesions and adjacent vessels, ducts and other critical structures from multiple planes. These advantages are particularly relevant when lesions are poorly

visualized by conventional ultrasound or require repeated imaging confirmation. Microwave energy can rapidly generate a thermal coagulation zone, while the needle itself is a procedure-dependent disposable. As interventional MRI infrastructure expands and demand for localized tumor treatment grows, MRI-guided microwave ablation is moving from research-oriented and limited clinical use toward more standardized specialist solutions.

The principal challenge is not merely producing sufficient heat, but maintaining ablation performance, image quality and procedural safety within a strong magnetic and radiofrequency environment. Needle shafts and cables may generate localized heating, signal interference or imaging artifacts, while the microwave generator and MRI platform require carefully managed electromagnetic compatibility. Manufacturers must validate tip temperature, ablation-zone geometry, cooling performance, biocompatibility, sterile-barrier integrity and shelf life, while clearly defining compatibility with generators, cables and MRI conditions. The capital intensity of interventional MRI, complex operating workflows and limited availability of specialized clinical teams may also keep near-term adoption concentrated in major oncology and interventional centers.

Hospital purchasing is moving away from evaluating an ablation needle in isolation and toward assessing the combined performance of the imaging platform, microwave generator, applicator, temperature monitoring and planning software. Clinicians increasingly focus on needle diameter, puncture rigidity, imaging artifacts, ablation geometry, shaft cooling and maneuverability in anatomically challenging locations. Product portfolios are expected to provide different shaft lengths, active-tip configurations and options for different lesion types. Future demand will favor thinner applicators, more predictable spherical ablation, reduced cable interference and clearer MRI visualization. Suppliers that support pre-procedure planning, intraprocedural monitoring, endpoint assessment and physician training are more likely to build recurring consumable revenue and durable hospital relationships.

LP Information, Inc. (LPI) ' newest research report, the "MRI-compatible Microwave Ablation Needles Industry Forecast" looks at past sales and reviews total world MRI-compatible Microwave Ablation Needles sales in 2025, providing a comprehensive analysis by region and market sector of projected MRI-compatible Microwave Ablation Needles sales for 2026 through 2032. With MRI-compatible Microwave Ablation Needles sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world MRI-compatible Microwave Ablation Needles industry.

This Insight Report provides a comprehensive analysis of the global MRI-compatible Microwave Ablation Needles landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MRI-compatible Microwave Ablation Needles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global MRI-compatible Microwave Ablation Needles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MRI-compatible Microwave Ablation Needles and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MRI-compatible Microwave Ablation Needles.

This report presents a comprehensive overview, market shares, and growth opportunities of MRI-compatible Microwave Ablation Needles market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

MRI-compatible Microwave Needle

Water-cooled Microwave Needle

Gas-cooled Microwave Needle

Other

Segmentation by Ablation Target Organ:

Liver Tumor Ablation

Lung Tumor Ablation

Thyroid Nodule Ablation

Bone Tumor Ablation

Other

Segmentation by Guidance Scenario:

MRI-guided Ablation

CT-guided Ablation

Ultrasound-guided Ablation

Fusion Imaging-guided Ablation

Other

Segmentation by Application:

Interventional Oncology

Hepatobiliary Surgery

Thoracic Surgery

Interventional Radiology

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Medtronic

Johnson & Johnson Ethicon

AngioDynamics

Varian Siemens Healthineers

ECO Medical

Nanjing Vison-China

Nanjing Great Wall Medical

Mima-pro

Micro-Tech Nanjing

Canyon Medical

Key Questions Addressed in this Report

What is the 10-year outlook for the global MRI-compatible Microwave Ablation Needles market?

What factors are driving MRI-compatible Microwave Ablation Needles market

growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MRI-compatible Microwave Ablation Needles market opportunities vary by end market size?

How does MRI-compatible Microwave Ablation Needles break out by Type, by Application?

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