

Global MRI-compatible Microwave Ablation Needles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MRI-compatible Microwave Ablation Needles market size is expected to reach \$ 19.42 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global MRI-compatible Microwave Ablation Needles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MRI-compatible Microwave Ablation Needles and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of MRI-compatible Microwave Ablation Needles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MRI-compatible Microwave Ablation Needles total production and demand, 2021-2032, (K Units)

Global MRI-compatible Microwave Ablation Needles total production value, 2021-2032, (USD Million)

Global MRI-compatible Microwave Ablation Needles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MRI-compatible Microwave Ablation Needles consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MRI-compatible Microwave Ablation Needles domestic production, consumption, key domestic manufacturers and share

Global MRI-compatible Microwave Ablation Needles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MRI-compatible Microwave Ablation Needles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MRI-compatible Microwave Ablation Needles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MRI-compatible Microwave Ablation Needles market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Medtronic, Johnson & Johnson Ethicon, AngioDynamics, Varian Siemens Healthineers, ECO Medical, Nanjing Vison-China, Nanjing Great Wall Medical, Mima-pro, Micro-Tech Nanjing, Canyon Medical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MRI-compatible Microwave Ablation Needles market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global MRI-compatible Microwave Ablation Needles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MRI-compatible Microwave Ablation Needles Market, Segmentation by Type:

MRI-compatible Microwave Needle

Water-cooled Microwave Needle

Gas-cooled Microwave Needle

Other

Global MRI-compatible Microwave Ablation Needles Market, Segmentation by Ablation Target Organ:

Liver Tumor Ablation

Lung Tumor Ablation

Thyroid Nodule Ablation

Bone Tumor Ablation

Other

Global MRI-compatible Microwave Ablation Needles Market, Segmentation by Guidance Scenario:

MRI-guided Ablation

CT-guided Ablation

Ultrasound-guided Ablation

Fusion Imaging-guided Ablation

Other

Global MRI-compatible Microwave Ablation Needles Market, Segmentation by Application:

Interventional Oncology

Hepatobiliary Surgery

Thoracic Surgery

Interventional Radiology

Other

Companies Profiled:

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 Answered:

1. How big is the global MRI-compatible Microwave Ablation Needles market?
2. What is the demand of the global MRI-compatible Microwave Ablation Needles market?
3. What is the year over year growth of the global MRI-compatible Microwave Ablation Needles market?
4. What is the production and production value of the global MRI-compatible Microwave Ablation Needles market?
5. Who are the key producers in the global MRI-compatible Microwave Ablation Needles market?
6. What are the growth factors driving the market demand?

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