

Global MRI-compatible Microwave Ablation Needles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global MRI-compatible Microwave Ablation Needles market size was valued at US\$ 12.71 million in 2025 and is forecast to a readjusted size of US\$ 19.42 million by 2032 with a CAGR of 6.4% during review period.

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 is a detailed and comprehensive analysis for global MRI-compatible Microwave Ablation Needles market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global MRI-compatible Microwave Ablation Needles market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MRI-compatible Microwave Ablation Needles market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MRI-compatible Microwave Ablation Needles market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MRI-compatible Microwave Ablation Needles market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MRI-compatible Microwave Ablation Needles

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MRI-compatible Microwave Ablation Needles market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

MRI-compatible Microwave Ablation Needles market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

MRI-compatible Microwave Needle

Water-cooled Microwave Needle

Gas-cooled Microwave Needle

Other

Market segment by Ablation Target Organ

Liver Tumor Ablation

Lung Tumor Ablation

Thyroid Nodule Ablation

Bone Tumor Ablation

Other

Market segment by Guidance Scenario

MRI-guided Ablation

CT-guided Ablation

Ultrasound-guided Ablation

Fusion Imaging-guided Ablation

Other

Market segment by Application

Interventional Oncology

Hepatobiliary Surgery

Thoracic Surgery

Interventional Radiology

Other

Major players covered

Medtronic

Johnson & Johnson Ethicon

AngioDynamics

Varian Siemens Healthineers

ECO Medical

Nanjing Vison-China

Nanjing Great Wall Medical

Mima-pro

Micro-Tech Nanjing

Canyon Medical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe MRI-compatible Microwave Ablation Needles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MRI-compatible Microwave Ablation Needles, with price, sales quantity, revenue, and global market share of MRI-compatible Microwave Ablation Needles from 2021 to 2026.

Chapter 3, the MRI-compatible Microwave Ablation Needles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MRI-compatible Microwave Ablation Needles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MRI-compatible Microwave Ablation Needles market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MRI-compatible Microwave Ablation Needles.

Chapter 14 and 15, to describe MRI-compatible Microwave Ablation Needles sales channel, distributors, customers, research findings and conclusion.

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