

# Global Medical Radio Frequency Ablation Device Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0D439D9C377EN.html>

Date: December 2025

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: G0D439D9C377EN

## Abstracts

The global Medical Radio Frequency Ablation Device market size is expected to reach \$ 3187 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Medical radiofrequency ablation devices are minimally invasive treatments that use a radiofrequency generator to output high-frequency alternating current, which, through electrodes/catheters, generates a thermal effect (or pulse modulation effect) in target tissue. This achieves coagulation of necrosis, hemostasis, or neuromodulation. They are commonly used in scenarios such as arrhythmia, local tumor ablation, and pain management interventions.

Upstream components include radiofrequency power supplies and devices, control boards, temperature/impedance sensors, catheter and electrode materials (stainless steel, nickel-titanium, PTFE, etc.), disposable consumables, and sterile packaging. Downstream components include hospital cardiology electrophysiology departments, interventional oncology departments, pain management/anesthesiology departments, and third-party imaging/surgical centers.

In 2025, the global unit price of medical radiofrequency ablation devices will be US\$25,620, with sales of approximately 86,500 units and a global annual production capacity of around 90,000 units. The industry profit margin is 25-30%.

Global Market Future Development Trends:

First, the expansion of indications and accelerated substitution for minimally invasive procedures are driving growth. The increasing number of patients with arrhythmias such as atrial fibrillation, and the rising demand for 'local control + function preservation' in solid tumors such as those in the liver, kidneys, and lungs, are propelling radiofrequency ablation to continue its expansion in the three major sectors of electrophysiology, oncology, and pain management, while also penetrating into primary care and day surgery.

Second, technological approaches are evolving towards 'safer, more controllable, and more efficient' procedures. Temperature control/impedance closed-loop systems, cooling/perfusion, visual navigation, and multi-electrode arrays improve ablation consistency and shorten procedure time; the refinement of disposable consumables and upgrades in catheter maneuverability are becoming key competitive focuses, while compliance and aseptic supply chain requirements are becoming more stringent.

Third, platformization and localization are proceeding in parallel. Leading manufacturers are locking in departmental and hospital processes with platforms encompassing 'generator + catheter/electrode + imaging/navigation + consumables'; improved payment systems and hospital expansion in emerging markets are bringing incremental growth; and the localization of regional supply chains and centralized procurement/cost control are driving products towards high cost-effectiveness and large-scale manufacturing.

This report studies the global Medical Radio Frequency Ablation Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical Radio Frequency Ablation Device 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 Medical Radio Frequency Ablation Device that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Medical Radio Frequency Ablation Device total production and demand, 2021-2032, (Units)

Global Medical Radio Frequency Ablation Device total production value, 2021-2032, (USD Million)

Global Medical Radio Frequency Ablation Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Medical Radio Frequency Ablation Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Medical Radio Frequency Ablation Device domestic production, consumption, key domestic manufacturers and share

Global Medical Radio Frequency Ablation Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Medical Radio Frequency Ablation Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Medical Radio Frequency Ablation Device production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Medical Radio Frequency Ablation Device 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 RF Medical, Boston Scientific, AngioDynamics, Stryker, Avanos, Medtronic, ITRI, Olympus Medical Systems, Morgan IAT, Lide Electronics, 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 Medical Radio Frequency Ablation Device market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Medical Radio Frequency Ablation Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Radio Frequency Ablation Device Market, Segmentation by Type:

Radio Frequency Ablation Cardiac Therapy Apparatus

Radio Frequency Ablation Prostate Therapy Apparatus

Tumor Radio Frequency Hyperthermia Machine

Others

Global Medical Radio Frequency Ablation Device Market, Segmentation by Ablation Electrode:

Monopolar

Bipolar

Global Medical Radio Frequency Ablation Device Market, Segmentation by Catheter Appearance:

Straight Needle

Multi-Needle

Umbrella-Shaped

Annular

Global Medical Radio Frequency Ablation Device Market, Segmentation by Application:

Hospital

Clinic

Others

**Companies Profiled:**

RF Medical

Boston Scientific

AngioDynamics

Stryker

Avanos

Medtronic

ITRI

Olympus Medical Systems

Morgan IAT

Lide Electronics

Surgnova

Acotec

### **Key Questions Answered:**

1. How big is the global Medical Radio Frequency Ablation Device market?
2. What is the demand of the global Medical Radio Frequency Ablation Device market?
3. What is the year over year growth of the global Medical Radio Frequency Ablation Device market?
4. What is the production and production value of the global Medical Radio Frequency Ablation Device market?
5. Who are the key producers in the global Medical Radio Frequency Ablation Device market?
6. What are the growth factors driving the market demand?

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