

# Global Microwave Plasma Source 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 Microwave Plasma Source market size was valued at US\$ 407 million in 2025 and is forecast to a readjusted size of US\$ 731 million by 2032 with a CAGR of 8.7% during review period.

In 2025, global microwave plasma source production reached approximately 1797 units, the average price is 220 k usd/unit. A microwave plasma source is a device that uses microwave energy to excite a working gas through a specific coupling structure, thereby generating a high-temperature, highly reactive plasma jet or plasma.

### Market Concentration and Major Players:

Internationally, the microwave plasma source market is highly concentrated, primarily in developed countries such as Europe, the US, and Japan. Large manufacturers include SAIREM and AET, Inc. Domestically, the microwave plasma source market still has significant room for growth.

### Manufacturing Process and Market Trends:

Microwave plasma source manufacturing encompasses precision microwave system assembly and specialized cavity processing. First, core components such as waveguide resonant cavities and quartz windows are fabricated through CNC machining and welding. Then, the electrical integration of microwave generators (magnetrons or solid-state power amplifiers) and impedance matching networks is completed. Finally, vacuum leak detection and plasma ignition testing are performed to ensure stability.

Market trends show that demand is growing with the expansion of advanced semiconductor, third-generation compound semiconductor, and high-end material processes such as MPCVD diamond preparation. The industry is accelerating its transformation from magnetron-based technologies to high-stability, long-life solid-state microwave sources, and is moving towards high-power continuous output, intelligent closed-loop control, and modular compact design to meet the higher requirements of precision manufacturing and scientific research for plasma density uniformity and process consistency.

This report is a detailed and comprehensive analysis for global Microwave Plasma Source market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Power 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 Microwave Plasma Source market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global Microwave Plasma Source market size and forecasts, by Power and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Microwave Plasma Source market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Microwave Plasma Source

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 Microwave Plasma Source 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 SAIREM (France), AET, Inc. (Japan), MKS Instruments (USA), Muegge GmbH (Germany), Radom Corporation (USA), SPECS (Germany), CAMECA (France), Hitachi High-Tech (Japan), Evatec (Switzerland), NANO-MASTER (USA), etc.

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

## Market Segmentation

Microwave Plasma Source market is split by Power and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Power, 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 Power

0-6kW

Above 6kW

### Market segment by Pressure

Low-pressure

Medium-pressure

Normal-pressure

## Market segment by Structure

Coaxial

Waveguide

Cavity

Others

## Market segment by Application

CVD

ALD/LPCVD

ETCH

Others

## Major players covered

SAIREM (France)

AET, Inc. (Japan)

MKS Instruments (USA)

Muegge GmbH (Germany)

Radom Corporation (USA)

SPECS (Germany)

CAMECA (France)

Hitachi High-Tech (Japan)

Evatec (Switzerland)

NANO-MASTER (USA)

AdNanoTek (Taiwan)

Noivion (Czech Republic)

UkrPlasma (Canada)

Eeplasma (Germany)

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 Microwave Plasma Source product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Microwave Plasma Source, with price, sales quantity, revenue, and global market share of Microwave Plasma Source from 2021 to 2026.

Chapter 3, the Microwave Plasma Source competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Microwave Plasma Source 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 Power and by Application, with sales market share and growth rate by Power, 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 Microwave Plasma Source market forecast, by regions, by Power, 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 Microwave Plasma Source.

Chapter 14 and 15, to describe Microwave Plasma Source sales channel, distributors, customers, research findings and conclusion.

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