

Global Microwave Plasma Source Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G24B6D458833EN.html>

Date: June 2026

Pages: 122

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

ID: G24B6D458833EN

Abstracts

The global Microwave Plasma Source market size is expected to reach \$ 731 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

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 studies the global Microwave Plasma Source production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microwave Plasma Source 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 Microwave Plasma Source that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microwave Plasma Source total production and demand, 2021-2032, (Units)

Global Microwave Plasma Source total production value, 2021-2032, (USD Million)

Global Microwave Plasma Source production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Microwave Plasma Source consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Microwave Plasma Source domestic production, consumption, key domestic manufacturers and share

Global Microwave Plasma Source production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Microwave Plasma Source production by Power, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Microwave Plasma Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Microwave Plasma Source 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Microwave Plasma Source market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Power, 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 Microwave Plasma Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microwave Plasma Source Market, Segmentation by Power:

0-6kW

Above 6kW

Global Microwave Plasma Source Market, Segmentation by Pressure:

Low-pressure

Medium-pressure

Normal-pressure

Global Microwave Plasma Source Market, Segmentation by Structure:

Coaxial

Waveguide

Cavity

Others

Global Microwave Plasma Source Market, Segmentation by Application:

CVD

ALD/LPCVD

ETCH

Others

Companies Profiled:

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)

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Microwave Plasma Source Introduction
- 1.2 World Microwave Plasma Source Supply & Forecast
 - 1.2.1 World Microwave Plasma Source Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Microwave Plasma Source Production (2021-2032)
 - 1.2.3 World Microwave Plasma Source Pricing Trends (2021-2032)
- 1.3 World Microwave Plasma Source Production by Region (Based on Production Site)
 - 1.3.1 World Microwave Plasma Source Production Value by Region (2021-2032)
 - 1.3.2 World Microwave Plasma Source Production by Region (2021-2032)
 - 1.3.3 World Microwave Plasma Source Average Price by Region (2021-2032)
 - 1.3.4 North America Microwave Plasma Source Production (2021-2032)
 - 1.3.5 Europe Microwave Plasma Source Production (2021-2032)
 - 1.3.6 China Microwave Plasma Source Production (2021-2032)
 - 1.3.7 Japan Microwave Plasma Source Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Microwave Plasma Source Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Microwave Plasma Source Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Microwave Plasma Source Demand (2021-2032)
- 2.2 World Microwave Plasma Source Consumption by Region
 - 2.2.1 World Microwave Plasma Source Consumption by Region (2021-2026)
 - 2.2.2 World Microwave Plasma Source Consumption Forecast by Region (2027-2032)
- 2.3 United States Microwave Plasma Source Consumption (2021-2032)
- 2.4 China Microwave Plasma Source Consumption (2021-2032)
- 2.5 Europe Microwave Plasma Source Consumption (2021-2032)
- 2.6 Japan Microwave Plasma Source Consumption (2021-2032)
- 2.7 South Korea Microwave Plasma Source Consumption (2021-2032)
- 2.8 ASEAN Microwave Plasma Source Consumption (2021-2032)
- 2.9 India Microwave Plasma Source Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Microwave Plasma Source Production Value by Manufacturer (2021-2026)

- 3.2 World Microwave Plasma Source Production by Manufacturer (2021-2026)
- 3.3 World Microwave Plasma Source Average Price by Manufacturer (2021-2026)
- 3.4 Microwave Plasma Source Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Microwave Plasma Source Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Microwave Plasma Source in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Microwave Plasma Source in 2025
- 3.6 Microwave Plasma Source Market: Overall Company Footprint Analysis
 - 3.6.1 Microwave Plasma Source Market: Region Footprint
 - 3.6.2 Microwave Plasma Source Market: Company Product Type Footprint
 - 3.6.3 Microwave Plasma Source Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Microwave Plasma Source Production Value Comparison
 - 4.1.1 United States VS China: Microwave Plasma Source Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Microwave Plasma Source Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Microwave Plasma Source Production Comparison
 - 4.2.1 United States VS China: Microwave Plasma Source Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Microwave Plasma Source Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Microwave Plasma Source Consumption Comparison
 - 4.3.1 United States VS China: Microwave Plasma Source Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Microwave Plasma Source Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Microwave Plasma Source Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Microwave Plasma Source Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Microwave Plasma Source Production Value (2021-2026)

4.4.3 United States Based Manufacturers Microwave Plasma Source Production (2021-2026)

4.5 China Based Microwave Plasma Source Manufacturers and Market Share

4.5.1 China Based Microwave Plasma Source Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Microwave Plasma Source Production Value (2021-2026)

4.5.3 China Based Manufacturers Microwave Plasma Source Production (2021-2026)

4.6 Rest of World Based Microwave Plasma Source Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Microwave Plasma Source Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Microwave Plasma Source Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Microwave Plasma Source Production (2021-2026)

5 MARKET ANALYSIS BY POWER

5.1 World Microwave Plasma Source Market Size Overview by Power: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Power

5.2.1 0-6kW

5.2.2 Above 6kW

5.3 Market Segment by Power

5.3.1 World Microwave Plasma Source Production by Power (2021-2032)

5.3.2 World Microwave Plasma Source Production Value by Power (2021-2032)

5.3.3 World Microwave Plasma Source Average Price by Power (2021-2032)

6 MARKET ANALYSIS BY PRESSURE

6.1 World Microwave Plasma Source Market Size Overview by Pressure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Pressure

6.2.1 Low-pressure

6.2.2 Medium-pressure

6.2.3 Normal-pressure

6.3 Market Segment by Pressure

6.3.1 World Microwave Plasma Source Production by Pressure (2021-2032)

6.3.2 World Microwave Plasma Source Production Value by Pressure (2021-2032)

6.3.3 World Microwave Plasma Source Average Price by Pressure (2021-2032)

7 MARKET ANALYSIS BY STRUCTURE

7.1 World Microwave Plasma Source Market Size Overview by Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Structure

7.2.1 Coaxial

7.2.2 Waveguide

7.2.3 Cavity

7.2.4 Others

7.3 Market Segment by Structure

7.3.1 World Microwave Plasma Source Production by Structure (2021-2032)

7.3.2 World Microwave Plasma Source Production Value by Structure (2021-2032)

7.3.3 World Microwave Plasma Source Average Price by Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Microwave Plasma Source Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 CVD

8.2.2 ALD/LPCVD

8.2.3 ETCH

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Microwave Plasma Source Production by Application (2021-2032)

8.3.2 World Microwave Plasma Source Production Value by Application (2021-2032)

8.3.3 World Microwave Plasma Source Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SAIREM (France)

9.1.1 SAIREM (France) Details

9.1.2 SAIREM (France) Major Business

9.1.3 SAIREM (France) Microwave Plasma Source Product and Services

9.1.4 SAIREM (France) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SAIREM (France) Recent Developments/Updates

9.1.6 SAIREM (France) Competitive Strengths & Weaknesses

9.2 AET, Inc. (Japan)

9.2.1 AET, Inc. (Japan) Details

9.2.2 AET, Inc. (Japan) Major Business

9.2.3 AET, Inc. (Japan) Microwave Plasma Source Product and Services

9.2.4 AET, Inc. (Japan) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 AET, Inc. (Japan) Recent Developments/Updates

9.2.6 AET, Inc. (Japan) Competitive Strengths & Weaknesses

9.3 MKS Instruments (USA)

9.3.1 MKS Instruments (USA) Details

9.3.2 MKS Instruments (USA) Major Business

9.3.3 MKS Instruments (USA) Microwave Plasma Source Product and Services

9.3.4 MKS Instruments (USA) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 MKS Instruments (USA) Recent Developments/Updates

9.3.6 MKS Instruments (USA) Competitive Strengths & Weaknesses

9.4 Muegge GmbH (Germany)

9.4.1 Muegge GmbH (Germany) Details

9.4.2 Muegge GmbH (Germany) Major Business

9.4.3 Muegge GmbH (Germany) Microwave Plasma Source Product and Services

9.4.4 Muegge GmbH (Germany) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Muegge GmbH (Germany) Recent Developments/Updates

9.4.6 Muegge GmbH (Germany) Competitive Strengths & Weaknesses

9.5 Radom Corporation (USA)

9.5.1 Radom Corporation (USA) Details

9.5.2 Radom Corporation (USA) Major Business

9.5.3 Radom Corporation (USA) Microwave Plasma Source Product and Services

9.5.4 Radom Corporation (USA) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Radom Corporation (USA) Recent Developments/Updates

9.5.6 Radom Corporation (USA) Competitive Strengths & Weaknesses

9.6 SPECS (Germany)

9.6.1 SPECS (Germany) Details

9.6.2 SPECS (Germany) Major Business

- 9.6.3 SPECS (Germany) Microwave Plasma Source Product and Services
- 9.6.4 SPECS (Germany) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 SPECS (Germany) Recent Developments/Updates
- 9.6.6 SPECS (Germany) Competitive Strengths & Weaknesses
- 9.7 CAMECA (France)
 - 9.7.1 CAMECA (France) Details
 - 9.7.2 CAMECA (France) Major Business
 - 9.7.3 CAMECA (France) Microwave Plasma Source Product and Services
 - 9.7.4 CAMECA (France) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 CAMECA (France) Recent Developments/Updates
 - 9.7.6 CAMECA (France) Competitive Strengths & Weaknesses
- 9.8 Hitachi High-Tech (Japan)
 - 9.8.1 Hitachi High-Tech (Japan) Details
 - 9.8.2 Hitachi High-Tech (Japan) Major Business
 - 9.8.3 Hitachi High-Tech (Japan) Microwave Plasma Source Product and Services
 - 9.8.4 Hitachi High-Tech (Japan) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Hitachi High-Tech (Japan) Recent Developments/Updates
 - 9.8.6 Hitachi High-Tech (Japan) Competitive Strengths & Weaknesses
- 9.9 Evatec (Switzerland)
 - 9.9.1 Evatec (Switzerland) Details
 - 9.9.2 Evatec (Switzerland) Major Business
 - 9.9.3 Evatec (Switzerland) Microwave Plasma Source Product and Services
 - 9.9.4 Evatec (Switzerland) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Evatec (Switzerland) Recent Developments/Updates
 - 9.9.6 Evatec (Switzerland) Competitive Strengths & Weaknesses
- 9.10 NANO-MASTER (USA)
 - 9.10.1 NANO-MASTER (USA) Details
 - 9.10.2 NANO-MASTER (USA) Major Business
 - 9.10.3 NANO-MASTER (USA) Microwave Plasma Source Product and Services
 - 9.10.4 NANO-MASTER (USA) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 NANO-MASTER (USA) Recent Developments/Updates
 - 9.10.6 NANO-MASTER (USA) Competitive Strengths & Weaknesses
- 9.11 AdNanoTek (Taiwan)
 - 9.11.1 AdNanoTek (Taiwan) Details

- 9.11.2 AdNanoTek (Taiwan) Major Business
- 9.11.3 AdNanoTek (Taiwan) Microwave Plasma Source Product and Services
- 9.11.4 AdNanoTek (Taiwan) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 AdNanoTek (Taiwan) Recent Developments/Updates
- 9.11.6 AdNanoTek (Taiwan) Competitive Strengths & Weaknesses
- 9.12 Noivion (Czech Republic)
 - 9.12.1 Noivion (Czech Republic) Details
 - 9.12.2 Noivion (Czech Republic) Major Business
 - 9.12.3 Noivion (Czech Republic) Microwave Plasma Source Product and Services
 - 9.12.4 Noivion (Czech Republic) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Noivion (Czech Republic) Recent Developments/Updates
 - 9.12.6 Noivion (Czech Republic) Competitive Strengths & Weaknesses
- 9.13 UkrPlasma (Canada)
 - 9.13.1 UkrPlasma (Canada) Details
 - 9.13.2 UkrPlasma (Canada) Major Business
 - 9.13.3 UkrPlasma (Canada) Microwave Plasma Source Product and Services
 - 9.13.4 UkrPlasma (Canada) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 UkrPlasma (Canada) Recent Developments/Updates
 - 9.13.6 UkrPlasma (Canada) Competitive Strengths & Weaknesses
- 9.14 Eeplasma (Germany)
 - 9.14.1 Eeplasma (Germany) Details
 - 9.14.2 Eeplasma (Germany) Major Business
 - 9.14.3 Eeplasma (Germany) Microwave Plasma Source Product and Services
 - 9.14.4 Eeplasma (Germany) Microwave Plasma Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Eeplasma (Germany) Recent Developments/Updates
 - 9.14.6 Eeplasma (Germany) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Microwave Plasma Source Industry Chain
- 10.2 Microwave Plasma Source Upstream Analysis
 - 10.2.1 Microwave Plasma Source Core Raw Materials
 - 10.2.2 Main Manufacturers of Microwave Plasma Source Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

10.5 Microwave Plasma Source Production Mode

10.6 Microwave Plasma Source Procurement Model

10.7 Microwave Plasma Source Industry Sales Model and Sales Channels

10.7.1 Microwave Plasma Source Sales Model

10.7.2 Microwave Plasma Source Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Microwave Plasma Source Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Microwave Plasma Source Production Value by Region (2021-2026) & (USD Million)

Table 3. World Microwave Plasma Source Production Value by Region (2027-2032) & (USD Million)

Table 4. World Microwave Plasma Source Production Value Market Share by Region (2021-2026)

Table 5. World Microwave Plasma Source Production Value Market Share by Region (2027-2032)

Table 6. World Microwave Plasma Source Production by Region (2021-2026) & (Units)

Table 7. World Microwave Plasma Source Production by Region (2027-2032) & (Units)

Table 8. World Microwave Plasma Source Production Market Share by Region (2021-2026)

Table 9. World Microwave Plasma Source Production Market Share by Region (2027-2032)

Table 10. World Microwave Plasma Source Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Microwave Plasma Source Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Microwave Plasma Source Major Market Trends

Table 13. World Microwave Plasma Source Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Microwave Plasma Source Consumption by Region (2021-2026) & (Units)

Table 15. World Microwave Plasma Source Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Microwave Plasma Source Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Microwave Plasma Source Producers in 2025

Table 18. World Microwave Plasma Source Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Microwave Plasma Source Producers in 2025

Table 20. World Microwave Plasma Source Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Microwave Plasma Source Company Evaluation Quadrant

Table 22. World Microwave Plasma Source Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Microwave Plasma Source Production Site of Key Manufacturer

Table 24. Microwave Plasma Source Market: Company Product Type Footprint

Table 25. Microwave Plasma Source Market: Company Product Application Footprint

Table 26. Microwave Plasma Source Competitive Factors

Table 27. Microwave Plasma Source New Entrant and Capacity Expansion Plans

Table 28. Microwave Plasma Source Mergers & Acquisitions Activity

Table 29. United States VS China Microwave Plasma Source Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Microwave Plasma Source Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Microwave Plasma Source Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Microwave Plasma Source Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Microwave Plasma Source Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Microwave Plasma Source Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Microwave Plasma Source Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Microwave Plasma Source Production Market Share (2021-2026)

Table 37. China Based Microwave Plasma Source Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Microwave Plasma Source Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Microwave Plasma Source Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Microwave Plasma Source Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Microwave Plasma Source Production Market Share (2021-2026)

Table 42. Rest of World Based Microwave Plasma Source Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Microwave Plasma Source Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Microwave Plasma Source Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Microwave Plasma Source Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Microwave Plasma Source Production Market Share (2021-2026)

Table 47. World Microwave Plasma Source Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 48. World Microwave Plasma Source Production by Power (2021-2026) & (Units)

Table 49. World Microwave Plasma Source Production by Power (2027-2032) & (Units)

Table 50. World Microwave Plasma Source Production Value by Power (2021-2026) & (USD Million)

Table 51. World Microwave Plasma Source Production Value by Power (2027-2032) & (USD Million)

Table 52. World Microwave Plasma Source Average Price by Power (2021-2026) & (K US\$/Unit)

Table 53. World Microwave Plasma Source Average Price by Power (2027-2032) & (K US\$/Unit)

Table 54. World Microwave Plasma Source Production Value by Pressure, (USD Million), 2021 & 2025 & 2032

Table 55. World Microwave Plasma Source Production by Pressure (2021-2026) & (Units)

Table 56. World Microwave Plasma Source Production by Pressure (2027-2032) & (Units)

Table 57. World Microwave Plasma Source Production Value by Pressure (2021-2026) & (USD Million)

Table 58. World Microwave Plasma Source Production Value by Pressure (2027-2032) & (USD Million)

Table 59. World Microwave Plasma Source Average Price by Pressure (2021-2026) & (K US\$/Unit)

Table 60. World Microwave Plasma Source Average Price by Pressure (2027-2032) & (K US\$/Unit)

Table 61. World Microwave Plasma Source Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Microwave Plasma Source Production by Structure (2021-2026) & (Units)

Table 63. World Microwave Plasma Source Production by Structure (2027-2032) & (Units)

Table 64. World Microwave Plasma Source Production Value by Structure (2021-2026) & (USD Million)

Table 65. World Microwave Plasma Source Production Value by Structure (2027-2032) & (USD Million)

Table 66. World Microwave Plasma Source Average Price by Structure (2021-2026) & (K US\$/Unit)

Table 67. World Microwave Plasma Source Average Price by Structure (2027-2032) & (K US\$/Unit)

Table 68. World Microwave Plasma Source Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Microwave Plasma Source Production by Application (2021-2026) & (Units)

Table 70. World Microwave Plasma Source Production by Application (2027-2032) & (Units)

Table 71. World Microwave Plasma Source Production Value by Application (2021-2026) & (USD Million)

Table 72. World Microwave Plasma Source Production Value by Application (2027-2032) & (USD Million)

Table 73. World Microwave Plasma Source Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Microwave Plasma Source Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. SAIREM (France) Basic Information, Manufacturing Base and Competitors

Table 76. SAIREM (France) Major Business

Table 77. SAIREM (France) Microwave Plasma Source Product and Services

Table 78. SAIREM (France) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SAIREM (France) Recent Developments/Updates

Table 80. SAIREM (France) Competitive Strengths & Weaknesses

Table 81. AET, Inc. (Japan) Basic Information, Manufacturing Base and Competitors

Table 82. AET, Inc. (Japan) Major Business

Table 83. AET, Inc. (Japan) Microwave Plasma Source Product and Services

Table 84. AET, Inc. (Japan) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AET, Inc. (Japan) Recent Developments/Updates

- Table 86. AET, Inc. (Japan) Competitive Strengths & Weaknesses
- Table 87. MKS Instruments (USA) Basic Information, Manufacturing Base and Competitors
- Table 88. MKS Instruments (USA) Major Business
- Table 89. MKS Instruments (USA) Microwave Plasma Source Product and Services
- Table 90. MKS Instruments (USA) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. MKS Instruments (USA) Recent Developments/Updates
- Table 92. MKS Instruments (USA) Competitive Strengths & Weaknesses
- Table 93. Muegge GmbH (Germany) Basic Information, Manufacturing Base and Competitors
- Table 94. Muegge GmbH (Germany) Major Business
- Table 95. Muegge GmbH (Germany) Microwave Plasma Source Product and Services
- Table 96. Muegge GmbH (Germany) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Muegge GmbH (Germany) Recent Developments/Updates
- Table 98. Muegge GmbH (Germany) Competitive Strengths & Weaknesses
- Table 99. Radom Corporation (USA) Basic Information, Manufacturing Base and Competitors
- Table 100. Radom Corporation (USA) Major Business
- Table 101. Radom Corporation (USA) Microwave Plasma Source Product and Services
- Table 102. Radom Corporation (USA) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Radom Corporation (USA) Recent Developments/Updates
- Table 104. Radom Corporation (USA) Competitive Strengths & Weaknesses
- Table 105. SPECS (Germany) Basic Information, Manufacturing Base and Competitors
- Table 106. SPECS (Germany) Major Business
- Table 107. SPECS (Germany) Microwave Plasma Source Product and Services
- Table 108. SPECS (Germany) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. SPECS (Germany) Recent Developments/Updates
- Table 110. SPECS (Germany) Competitive Strengths & Weaknesses
- Table 111. CAMECA (France) Basic Information, Manufacturing Base and Competitors
- Table 112. CAMECA (France) Major Business
- Table 113. CAMECA (France) Microwave Plasma Source Product and Services

Table 114. CAMECA (France) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. CAMECA (France) Recent Developments/Updates

Table 116. CAMECA (France) Competitive Strengths & Weaknesses

Table 117. Hitachi High-Tech (Japan) Basic Information, Manufacturing Base and Competitors

Table 118. Hitachi High-Tech (Japan) Major Business

Table 119. Hitachi High-Tech (Japan) Microwave Plasma Source Product and Services

Table 120. Hitachi High-Tech (Japan) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hitachi High-Tech (Japan) Recent Developments/Updates

Table 122. Hitachi High-Tech (Japan) Competitive Strengths & Weaknesses

Table 123. Evatec (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 124. Evatec (Switzerland) Major Business

Table 125. Evatec (Switzerland) Microwave Plasma Source Product and Services

Table 126. Evatec (Switzerland) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Evatec (Switzerland) Recent Developments/Updates

Table 128. Evatec (Switzerland) Competitive Strengths & Weaknesses

Table 129. NANO-MASTER (USA) Basic Information, Manufacturing Base and Competitors

Table 130. NANO-MASTER (USA) Major Business

Table 131. NANO-MASTER (USA) Microwave Plasma Source Product and Services

Table 132. NANO-MASTER (USA) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. NANO-MASTER (USA) Recent Developments/Updates

Table 134. NANO-MASTER (USA) Competitive Strengths & Weaknesses

Table 135. AdNanoTek (Taiwan) Basic Information, Manufacturing Base and Competitors

Table 136. AdNanoTek (Taiwan) Major Business

Table 137. AdNanoTek (Taiwan) Microwave Plasma Source Product and Services

Table 138. AdNanoTek (Taiwan) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 139. AdNanoTek (Taiwan) Recent Developments/Updates
- Table 140. AdNanoTek (Taiwan) Competitive Strengths & Weaknesses
- Table 141. Noivion (Czech Republic) Basic Information, Manufacturing Base and Competitors
- Table 142. Noivion (Czech Republic) Major Business
- Table 143. Noivion (Czech Republic) Microwave Plasma Source Product and Services
- Table 144. Noivion (Czech Republic) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Noivion (Czech Republic) Recent Developments/Updates
- Table 146. Noivion (Czech Republic) Competitive Strengths & Weaknesses
- Table 147. UkrPlasma (Canada) Basic Information, Manufacturing Base and Competitors
- Table 148. UkrPlasma (Canada) Major Business
- Table 149. UkrPlasma (Canada) Microwave Plasma Source Product and Services
- Table 150. UkrPlasma (Canada) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. UkrPlasma (Canada) Recent Developments/Updates
- Table 152. UkrPlasma (Canada) Competitive Strengths & Weaknesses
- Table 153. Eeplasma (Germany) Basic Information, Manufacturing Base and Competitors
- Table 154. Eeplasma (Germany) Major Business
- Table 155. Eeplasma (Germany) Microwave Plasma Source Product and Services
- Table 156. Eeplasma (Germany) Microwave Plasma Source Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Eeplasma (Germany) Recent Developments/Updates
- Table 158. Eeplasma (Germany) Competitive Strengths & Weaknesses
- Table 159. Global Key Players of Microwave Plasma Source Upstream (Raw Materials)
- Table 160. Global Microwave Plasma Source Typical Customers
- Table 161. Microwave Plasma Source Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Microwave Plasma Source Picture
- Figure 2. World Microwave Plasma Source Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Microwave Plasma Source Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Microwave Plasma Source Production (2021-2032) & (Units)
- Figure 5. World Microwave Plasma Source Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Microwave Plasma Source Production Value Market Share by Region (2021-2032)
- Figure 7. World Microwave Plasma Source Production Market Share by Region (2021-2032)
- Figure 8. North America Microwave Plasma Source Production (2021-2032) & (Units)
- Figure 9. Europe Microwave Plasma Source Production (2021-2032) & (Units)
- Figure 10. China Microwave Plasma Source Production (2021-2032) & (Units)
- Figure 11. Japan Microwave Plasma Source Production (2021-2032) & (Units)
- Figure 12. Microwave Plasma Source Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 15. World Microwave Plasma Source Consumption Market Share by Region (2021-2032)
- Figure 16. United States Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 17. China Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 18. Europe Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 19. Japan Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 20. South Korea Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 21. ASEAN Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 22. India Microwave Plasma Source Consumption (2021-2032) & (Units)
- Figure 23. Producer Shipments of Microwave Plasma Source by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Microwave Plasma Source Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Microwave Plasma Source Markets in 2025
- Figure 26. United States VS China: Microwave Plasma Source Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Microwave Plasma Source Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Microwave Plasma Source Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Microwave Plasma Source Production Market Share 2025

Figure 30. China Based Manufacturers Microwave Plasma Source Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Microwave Plasma Source Production Market Share 2025

Figure 32. World Microwave Plasma Source Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 33. World Microwave Plasma Source Production Value Market Share by Power in 2025

Figure 34. 0-6kW

Figure 35. Above 6kW

Figure 36. World Microwave Plasma Source Production Market Share by Power (2021-2032)

Figure 37. World Microwave Plasma Source Production Value Market Share by Power (2021-2032)

Figure 38. World Microwave Plasma Source Average Price by Power (2021-2032) & (K US\$/Unit)

Figure 39. World Microwave Plasma Source Production Value by Pressure, (USD Million), 2021 & 2025 & 2032

Figure 40. World Microwave Plasma Source Production Value Market Share by Pressure in 2025

Figure 41. Low-pressure

Figure 42. Medium-pressure

Figure 43. Normal-pressure

Figure 44. World Microwave Plasma Source Production Market Share by Pressure (2021-2032)

Figure 45. World Microwave Plasma Source Production Value Market Share by Pressure (2021-2032)

Figure 46. World Microwave Plasma Source Average Price by Pressure (2021-2032) & (K US\$/Unit)

Figure 47. World Microwave Plasma Source Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 48. World Microwave Plasma Source Production Value Market Share by Structure in 2025

Figure 49. Coaxial

Figure 50. Waveguide

Figure 51. Cavity

Figure 52. Others

Figure 53. World Microwave Plasma Source Production Market Share by Structure (2021-2032)

Figure 54. World Microwave Plasma Source Production Value Market Share by Structure (2021-2032)

Figure 55. World Microwave Plasma Source Average Price by Structure (2021-2032) & (K US\$/Unit)

Figure 56. World Microwave Plasma Source Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Microwave Plasma Source Production Value Market Share by Application in 2025

Figure 58. CVD

Figure 59. ALD/LPCVD

Figure 60. ETCH

Figure 61. Others

Figure 62. World Microwave Plasma Source Production Market Share by Application (2021-2032)

Figure 63. World Microwave Plasma Source Production Value Market Share by Application (2021-2032)

Figure 64. World Microwave Plasma Source Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. Microwave Plasma Source Industry Chain

Figure 66. Microwave Plasma Source Procurement Model

Figure 67. Microwave Plasma Source Sales Model

Figure 68. Microwave Plasma Source Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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