

Plasma Technology Market Size, Share & Trends Analysis Report By Application (Surface Cleaning, Surface Activation, Surface Coating, Etching & Patterning), By Technology (Atmospheric Plasma), By End Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Plasma Technology Market Growth & Trends

The global plasma technology market size is anticipated to reach USD 4,830.1 million by 2030 and is expected to grow at a CAGR of 5.9% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market is witnessing significant growth driven by the expanding semiconductor industry and the booming automotive sector. The rapid rise in electric vehicle (EV) manufacturing has increased the demand for advanced surface treatments and precision component fabrication.

Market opportunities in the plasma technology market are expanding rapidly across multiple industries. Plasma technology enables cleaner, more efficient processes, making it vital for producing high-performance electronics and durable, lightweight automotive parts. The electronics and semiconductor sectors benefit from plasma's precision in etching and deposition processes. The automotive and electric vehicle industries use plasma for surface treatment and component manufacturing.

Regulatory pressures play a crucial role in shaping the plasma technology market by enforcing standards that drive innovation and compliance. U.S. FDA mandates strict

approval processes for plasma-based medical devices and therapies to ensure safety and effectiveness. In Europe, CE marking is required for market entry, confirming compliance with EU health and safety standards. Environmental and chemical regulations like REACH govern the use of substances in plasma surface treatments, while RoHS restricts hazardous materials in electronic components, guiding the development of cleaner plasma processes. These regulations collectively shape innovation, compliance, and market access across industries using plasma technologies.

Top players in the plasma technology market, such as Plasmatreat, OC Oerlikon Management AG, and relyon plasma GmbH are focusing on innovation and expanding their product offerings to cater to different industries. These companies are investing in research and development to introduce advanced plasma technology. Strategic acquisitions and partnerships with manufacturers and retailers also help these players expand their market reach. For instance, in September 2024, Oerlikon Balzers launched INVENTA which is equipped with Advanced Arc Technology, INVENTA marks a major advancement in PVD Arc Technology. Demonstrating Oerlikon's commitment to technological innovation, efficiency, and sustainability, this new system enabled customers to enhance productivity while reducing resource and material consumption.

Plasma Technology Market Report Highlights

Based on applications, the surface coating segment dominated the market in 2024. Plasma technology has transformed surface coating applications by allowing the deposition of thin, highly uniform coatings that are challenging to achieve through conventional methods. In the automotive industry, plasma-enhanced chemical vapor deposition (PECVD) is employed to apply hard, wear-resistant coatings on engine parts and cutting tools.

Based on technology, the atmospheric plasma segment led the market in 2024 due to its versatility and efficiency across various applications. Operating at room temperature, this non-thermal plasma can be utilized in a broad range of processes without harming sensitive materials. It is extensively used for surface treatments such as cleaning, sterilization, and coating applications.

Based on end use, the electronics and semiconductor segment led the market in 2024, driven by the growing demand for advanced chips in AI, data centers, and consumer electronics. Plasma technology is vital in semiconductor manufacturing, particularly in etching, deposition, and surface modification

processes essential for producing advanced chips.

Based on region, the market in Asia Pacific dominated the market in 2024 driven by the rapid growth of the electronics, semiconductor, and automotive industries, especially in countries like China, India, and South Korea. These countries are increasingly adopting plasma technology across various manufacturing processes.

In June 2024, Oerlikon launched Advanced Coating Technology Center in New York, focused on driving innovation for the aerospace and gas turbine industries. Situated at the current headquarters of the Oerlikon Metco brand, the new center brings together thermal spray technology with PVD expertise from the Oerlikon Balzers brand.

Companies Mentioned

OC Oerlikon Management AG
Plasmatrete
relyon plasma GmbH
Diener electronic GmbH & Co. KG
AGC Glass Europe SA
Bodycote
Henniker
P2i Ltd
Oxford Instruments
Applied Plasma Technologies, Corp.
Sulzer Ltd
AcXys Technologies
Tri-Star Technologies
Plasma Etch, Inc.
Plasmawerk GmbH

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