

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

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## Abstracts

This report can be delivered to the clients within 4 Business Days

Atmospheric Plasma Technology Market Growth & Trends

The global atmospheric plasma technology market size is anticipated to reach USD 3,398.3 million by 2030 and is projected to grow at a CAGR of 6.1% from 2025 to 2030, according to a new report by Grand View Research, Inc. The atmospheric plasma technology industry is expanding rapidly, driven by growing demand for environmentally friendly surface treatment across sectors such as electronics, automotive, and healthcare. Its capability to improve adhesion, cleaning, and sterilization without chemicals combined with advancements in cold plasma and automation is accelerating its adoption and contributing to market growth.

Market opportunities in the atmospheric plasma technology industry are expanding rapidly across multiple industries. Miniaturization in electronics offers a major opportunity for the market. As devices become more compact and complex, manufacturers require highly precise, non-damaging surface treatment solutions. Atmospheric plasma provides consistent cleaning and activation without excessive heat or harsh chemicals, making it ideal for delicate components like microchips, thus boosting its use in advanced electronics production.

Regulatory pressures play a crucial role in shaping the atmospheric plasma technology



industry by enforcing standards that drive innovation and compliance. In the U.S., the FDA enforces rigorous approval processes for plasma-based medical devices and treatments to ensure safety and efficacy. In Europe, CE marking is essential for market entry, indicating adherence to EU health and safety standards. Regulations like REACH and RoHS control chemical use and hazardous materials, influencing the development of cleaner, compliant plasma technologies. Together, these frameworks drive innovation, regulatory compliance, and industry-wide market access.

Top players in the atmospheric plasma technology industry, such as Plasmatreat, OC Oerlikon Management AG, andrelyon 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 atmospheric plasma technology. Strategic acquisitions and partnerships with manufacturers and retailers also help these players expand their market reach. For instance, in February 2025 Viromed Medical AG collaborated with a multinational corporation, securing a European license for the use of cold atmospheric pressure plasma in medicine.

Atmospheric Plasma Technology Market Report Highlights

Based on applications, the surface coating segment accounted for the largest market revenue share in 2024, due to its broad application in improving adhesion, durability, and material performance. Sectors such as automotive, electronics, and packaging commonly use plasma treatments to prepare surfaces for coating.

Based on type, the cold segment accounted for the largest market revenue share in 2024, due to its flexibility, energy efficiency, and compatibility with heatsensitive materials. It allows accurate surface modification without causing thermal damage, making it ideal for electronics, medical devices, and automotive parts.

Based on end use, the electronics and semiconductor segment accounted for the largest market revenue share in 2024. It enhances adhesion and effectively removes contaminants. As the demand for compact, high-performance electronic components grows, the need for accurate and efficient plasma treatments continues to fuel market growth in this sector.

Asia Pacific dominated the market with the largest revenue share in 2024, due to rapid industrialization and increased demand for advanced surface treatment



technologies. Expanding sectors like electronics, automotive, and healthcare are adopting plasma solutions for precision, efficiency, and environmental benefits, while regional investments in innovation continue to drive momentum.

In December 2024, Ushio launched "Lamina 5," an atmospheric pressure plasma irradiation unit featuring a compact design achieved through a unique electrode structure. This innovation enables installation in limited spaces and is ideal for processing large substrates. It also reduces power consumption and eliminates the need for water cooling, enhancing efficiency.

#### **Companies Mentioned**

OC Oerlikon Management AG Plasmatreat relyon plasma GmbH Diener electronic GmbH & Co. KG Enercon Asia Pacific Bodycote Henniker P2i Ltd Oxford Instruments Atmospheric Plasma Technology Solutions Sulzer Ltd AcXys Technologies Tri-Star Technologies Plasma Etch, Inc. Plasmawerk GmbH



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