

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

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Abstracts

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Cold Plasma Technology Market Growth & Trends

The global cold plasma technology market is anticipated to reach USD 3,466.2 million by 2030 and is expected to grow at a CAGR of 6.3% during the forecast period, according to a new report by Grand View Research, Inc. The global cold plasma technology market is witnessing significant growth driven by advancements in electronics manufacturing, as there is a growing demand for precise, contamination-free surface treatments. In semiconductor and microelectronics production, where components are tiny and delicate, cold plasma provides non-thermal, highly controlled surface cleaning, activation, etching, ensuring strong adhesion, accurate patterning, and defect-free fabrication.

Market opportunities in the cold plasma technology market is miniaturization of components, especially in the automotive industry. As components become smaller, the demand for portable, scalable cold plasma systems increases. These systems allow for precise, on-site surface treatments, enhancing efficiency, lowering production costs, and providing greater flexibility for manufacturers without requiring large-scale setups.

Regulatory pressures are crucial in shaping the cold plasma technology market by enforcing standards that drive innovation and compliance. Organizations like ASTM and

ISO set critical standards for cold plasma technology equipment. ASTM provides guidelines for measuring adhesion strength and performance, while ISO sets global benchmarks for quality, safety, and efficiency, ensuring the technology meets industry requirements and operates reliably across various applications.

Top players in the cold plasma technology market, such as Plasmatreat and relyon plasma GmbH, are focusing on innovation and expanding their product offerings to cater to different industries. Companies are prioritizing collaborations with various industries to expand applications. Strategic partnerships and acquisitions are common to increase market share and innovation. For instance, in May 2024, Plasmalex, formed by the merger of Europlasma and CPI, expanded its portfolio by acquiring Switzerland-based COAT-X SA. COAT-X specializes in implantable multilayer thin films, offering advanced parylene, ALD, and multilayer barrier solutions. This acquisition enhances Plasmalex's capabilities in surface functionalization and protection, particularly for medical, electronics, and micromechanics applications.

Cold Plasma Technology Market Report Highlights

Based on applications, the surface coating segment dominated the market in 2024. Cold plasma enhances surface energy, ensuring improved paint, adhesives, and coatings adhesion. This precise, eco-friendly process benefits sectors such as automotive, aerospace, and electronics. As the demand for high-performance, sustainable coatings grows, cold plasma adoption for advanced surface modification continues to rise.

Based on technology, the atmospheric plasma segment led the market in 2024, driven by its cost-effectiveness and easy integration into existing production lines. This makes it well-suited for continuous processes in industries such as automotive, packaging, and electronics.

Based on end use, the electronics and semiconductor segment led the market in 2024, driven by the growing demand for advanced chips in artificial intelligence (AI), data centers, and consumer electronics. Cold plasma is crucial in cleaning, etching, and modifying surfaces at the micro and nano levels, ensuring high-quality semiconductor production.

Based on region, the Asia Pacific market dominated in 2024, driven by growing adoption in key sectors like electronics, semiconductors, and automotive. The region's growth is supported by advancements in surface treatment technologies

that improve manufacturing processes, alongside increasing demand for eco-friendly solutions and enhanced product performance.

Companies operating in the market include Coating Plasma Innovation, Plasmatrete GmbH, relyon plasma GmbH, Nordson Corporation, Neoplas GmbH, Bodycote, Henniker, Adtec Plasma Technology Co., Ltd., Apyx Medical, Enercon Industries Corporation, Europlasma N.V., AcXys Technologies, Tri-Star Technologies, Plasma Etch, Inc., and Plasmawerk GmbH.

In December 2024, Viomed Medical AG and relyon plasma GmbH entered a strategic partnership to promote the use of cold atmospheric pressure plasma in medical applications. In this collaboration, relyon plasma will focus on developing the cold plasma technology, while Viomed will be responsible for obtaining device approvals and managing distribution.

Companies Mentioned

Coating Plasma Innovation
Plasmatrete GmbH
relyon plasma GmbH
Nordson Corporation
Neoplas GmbH
Bodycote
Henniker
Adtec Plasma Technology Co., Ltd.
Apyx Medical
Enercon Industries Corporation
Europlasma N.V.
AcXys Technologies
Tri-Star Technologies
Plasma Etch, Inc.
Plasmawerk GmbH

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