Seoul, January 9th, 2024

**Plasmatreat Korea at SEMICON Korea 2025: Innovative Technologies for Plasma Surface Treatment**

**Plasmatreat Korea, specialist in atmospheric pressure plasma technology for surface treatment, is pleased to announce its participation at SEMICON Korea 2025. From February 19 to 21, 2025, visitors will have the opportunity to learn more about Openair-Plasma and PlasmaPlus at booth P126 in the Platz Hall.**

When plasma with its high energy level comes into contact with materials, it changes the surface properties, for example from hydrophobic to hydrophilic. Plasma technology requires only compressed air and electricity for operation. Fine cleaning with Openair-Plasma gently and reliably removes dust, release agents, additives, plasticizers and hydrocarbons from surfaces. Especially with non-polar plastics, plasma treatment achieves surface activation. It supports the increase of surface energy by introducing hydroxyl groups and thus improves adhesion in subsequent processes such as bonding, printing, painting and sealing. Plasmatreat's PlasmaPlus technology can also be used to create targeted functionalized surfaces with defined properties by applying (depositing) nano coatings, e.g. as an additional adhesion promoter layer or anticorrosion coating.

The company has developed a special plasma system for the electronics industry and its increasing challenges such as miniaturization, cost and time efficiency: With the new REDOX-Tool, oxide layers can be reliably removed from metal surfaces inline during the production process in an environmentally friendly manner. An oxide-free and clean surface is crucial for many applications, such as the production of power modules, semiconductors and lead frames. With this technology, Plasmatreat is setting new standards for process reliability, efficiency and sustainability in electronics and semiconductor production. Processes such as sintering or the use of flux are completely replaced by the use of Plasmatreat's systems and equipment.

Visitors to the Plasmatreat booth P126 at SEMICON Korea will also be able to see how atmospheric pressure plasma works in real time. The Openair-Plasma live demonstrations offer fascinating insights into this precise and sustainable surface treatment technology

Plasmatreat Korea invites visitors cordially to convince themselves of the performance and versatility of this surface treatment technology. Local experts will be on hand to answer questions and discuss customized solutions for industrial challenges.

Experience Plasmatreat Korea at SEMICON Korea 2025 - Innovation that impresses!

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For more information, visit: <https://www.plasmatreat.co.kr/en/>

**About Plasmatreat**

Plasmatreat is an international leader in the development and manufacture of atmospheric plasma systems for the pretreatment of substrate surfaces. Whether plastic, metal, glass or paper - the industrial use of plasma technology modifies the properties of the surface in favor of the process requirements.

Openair-Plasma® technology is used in automated and continuous manufacturing processes in almost every industrial sector. Examples include the automotive, electronics, transportation, packaging, consumer goods and textile industry, but the technology, cost and environmental advantages of the plasma technology are used in medical technology and in the renewable energy sector as well.

The Plasmatreat Group has technology centers in Germany, USA, Canada, China, and Japan. With its worldwide sales and service network, the company is represented in more than 30 countries by subsidiaries and sales partners.

For more information, visit: [www.plasmatreat.com](http://www.plasmatreat.com)

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**Pictures and captions:**

A machine with a machine in it

Description automatically generated

Inline oxide reduction from metal surfaces for e.g. manufacturing of power modules, lead frames or semiconductors, without using flux or sintering processes.

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