Venice, January 27th, 2025

**Plasmatreat Italia at MECSPE 2025: Focus on Openair-Plasma technology**

1995 - 2025: 30 years of Openair-Plasma in industrial applications

**Plasmatreat Italia, a subsidiary of Plasmatreat GmbH, will be exhibiting at MECSPE 2025 in Bologna, the leading trade fair for the manufacturing industry in Italy, from March 5 to 7. At booth E42 in hall 30, in the "Automation & Robotics" area, the world's leading supplier of plasma systems will present various options for surface treatment with environmentally friendly atmospheric pressure plasma.**

A particular highlight of the booth will be the Plasma Treatment Unit (PTU), a state-of-the-art system that can be used for in-line surface treatment in production processes or as a stand-alone system with Openair-Plasma and PlasmaPlus. These technologies provide precise pretreatment, cleaning, activation and coating of a wide range of materials in a variety of applications. In general, only compressed air and electricity are required to generate plasma. Openair-Plasma has been successfully integrated into industries such as automotive, electronics, appliance and life sciences for years and is used in numerous applications such as bonding headlight housings, displays or printing control panels and medical devices.

Openair-Plasma, also known as the fourth state of matter, is created by an electrical discharge in a special nozzle. In addition to the nozzle technology, a plasma system also includes a generator and a transformer. At MECSPE, visitors can learn more about the RD1004 plasma nozzle and the FG5001S generator. Plasmatreat's RD1004 is a compact rotary plasma nozzle that enables precise and efficient surface treatment. Suitable for applications such as cleaning and activation, it features high process speeds and energy efficiency - ideal for demanding industries such as automotive and electronics. The FG5001S from Plasmatreat is a powerful, energy-efficient plasma generator that offers ease of use with an integrated touch display and simple menu navigation. It is suitable for a wide range of applications and offers reliable performance - ideal for demanding surface treatments in a variety of industries.

The year 2025 also marks a special milestone for the Plasmatreat group of companies, as Openair-Plasma technology celebrates 30 years of use in industrial manufacturing processes. The 30th anniversary of Openair-Plasma technology underlines the company's long-standing commitment to innovation, quality and customer focus. It symbolizes three decades of successful development and the worldwide application of a technology that has revolutionized industrial standards in surface treatment.

For Plasmatreat, this anniversary is also an opportunity to look back on a success story full of technological breakthroughs, to celebrate new partnerships and to further expand its expertise. At the same time, it is an incentive to continue pioneering work, to develop sustainable solutions and to further perfect open-air plasma technology for the demands of the future.

Plasmatreat Italia will take place in Bologna from March 5 to 7, 2025 in Hall 30, Stand E42.

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

***Info box:***

**How Openair-Plasma® and PlasmaPlus® optimize industrial processes.**

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. Even oxide layers on metal surfaces can be reliably removed inline during the production process using plasma technology. Plasmatreat's PlasmaPlus® technology can also be used to create targeted functionalized surfaces with defined properties by applying (depositing) nanocoatings, e.g. as an additional adhesion promoter layer.

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**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 white machine with glass doors

AI-generated content may be incorrect.

The Plasma Treatment Unit (PTU) from Plasmatreat with Openair-Plasma for cleaning and activation and PlasmaPlus for nano-coating - as a stand-alone solution or integrated into production lines. (Copyright: Plasmatreat GmbH)

A white rectangular object with a screen on it

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The FG5001S from Plasmatreat is a powerful, energy-efficient plasma generator that offers ease of use with an integrated touch display and simple menu navigation. (Copyright: Plasmatreat GmbH)