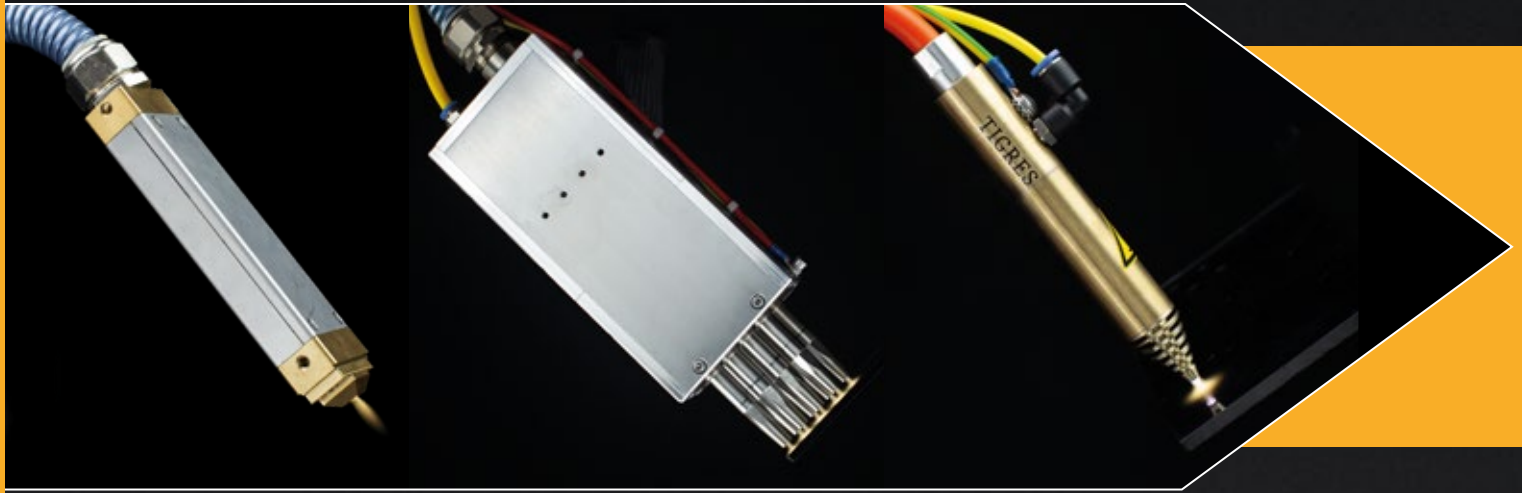




TIGRES

Plasma for perfect adhesion



Atmospheric pressure plasma

*Your specialist for flexibly scalable
plasma system solutions*



Preprocessing

No matter whether efficient activation or fine cleaning for optimum adhesion during gluing or printing processes, high-precision deburring by precisely adjustable energy input or coating for surface modification in a wide variety of applications.

With TIGRES system solutions your surfaces are optimally prepared for the subsequent process.

The four fields of plasma pre-treatment

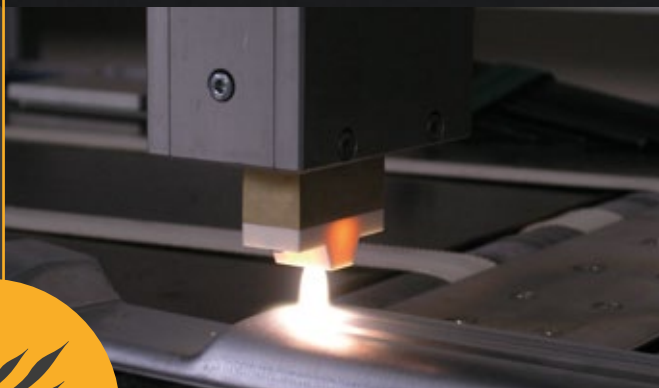
Activation

Increased adhesion and wetting for adhesive and coating applications.



Deburring

Effortless removal of burr edges after injection moulding.



Efficient removal of organic contaminants and easy cleaning of metal surfaces.

Cleaning



Allows plasma polymerization, thin layers and the creation of functions on the surface.

Coating

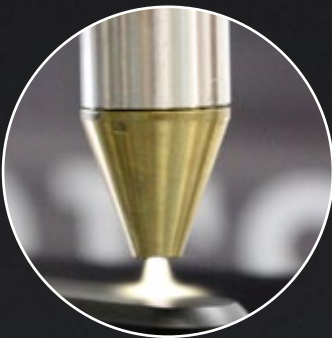
The new M-Generator Series

Process reliability and scalability redefined



The new M-Series generators provide maximum application flexibility through modular design and custom control of individual plasma heads. The option of operating **up to four different plasma tools** independently with just one compact generator and the **interconnectivity of any number of generators** offers an unprecedented variety of applications. In addition to all classic industrial interfaces such as Profinet, the generator provides **autonomous channel monitoring** and allows numerous possibilities for **detailed process control** thanks to the integrated troubleshooting tool and a multitude of integrated sensors.

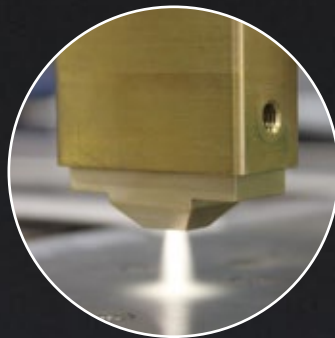
T-SPOT



◀ 10 mm - ∞ ▶

Compact dimensions, long lifetime and service-friendly design. The proven standard solution for activation and deburring is fully adjustable and can be scaled to any width in the Multi-SPOT version.

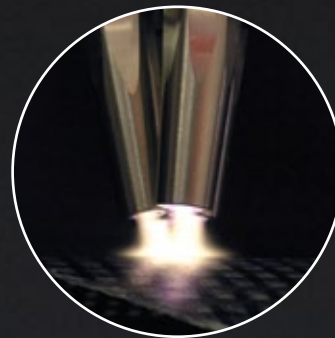
CAT



◀ 18 - 30 mm ▶

Powerful plasma for high line speeds. Thanks to EDC pulse operation, power and heat input can be adjusted variably. Suitable options are available for coating applications.

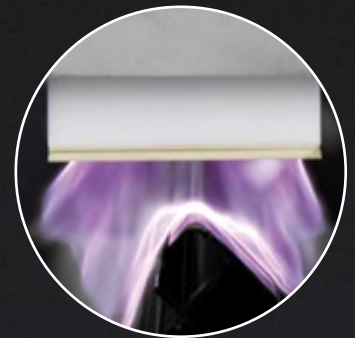
MEF



◀ bis 140 mm ▶

The treatment width can be adapted to the customer's process by different nozzle ranges. Thanks to EDC, the plasma and heat input can be steplessly controlled.

JET



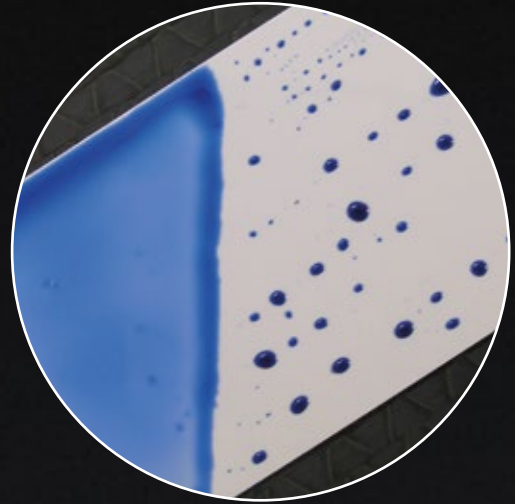
◀ 70 mm ▶

Free stream Corona with extremely low heat input. Ideal for the pretreatment of sensitive, non-conductive materials.

Fundamentals of plasma pretreatment

In order to successfully bond, coat, print or paint polymers or metals, the surface must be very clean and active, otherwise an adhesive bond between coating material and substrate is not possible.

The plasma pretreatment turns a non-polar material into a polar one that can be optimally wetted by printing inks, paints, adhesives, and the like.



A passion for technology leadership.

TIGRES GmbH has been a leader in the field of atmospheric pressure plasma treatment since 1993. Our system solutions for activating, ultra-fine cleaning and coating surfaces are being used in a wide variety of industries all around the world. Many materials used in the automotive, aerospace, electrical, medical, consumer appliances, printing, textile and packaging industries are modified with our equipment before further processing.

Problem analysis

Sampling

Solution finding

Service & Support

Our highly qualified sales staff, process specialists, engineers and onsite service professionals support you holistically. From problem analysis and sampling in our laboratory to solution development we are there to support you competently and efficiently. We solve maintenance tasks and repairs uncomplicated and quickly - so you can focus on your core processes.

Our machines are developed and manufactured in Germany and afterwards exported worldwide. As a result you are able to benefit from the highest quality and extensive know-how - no matter where you are manufacturing on the globe.

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