Plasmatreat GmbH

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About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

Plasmatreat is a global leader in the development and manufacture of atmospheric pressure plasma systems for surface pretreatment. The technology is used to modify surface properties in line with process requirements. Openair-Plasma® technology is used in automated and continuous manufacturing processes. Examples include the automotive, electronics, transport, packaging and consumer goods industries.

Atmospheric pressure plasma is widely used in lightweight construction as it offers a solvent-free, energy-efficient and reproducible method of surface modification. The plasma can be used to activate plastics, metals and fibre composites to improve the adhesion of adhesives, paints and coatings. Surfaces can also be cleaned to remove organic residues that interfere with the adhesion process. Release agents can be efficiently removed from composite materials such as CFRP and GFRP. By adding small amounts of a chemical precursor compound to the plasma, it is also possible to deposit functional plasma polymer layers. These are used, for example, as adhesion promoters in the production of plastic-metal hybrid materials or as corrosion-inhibiting layers in the bonding and sealing of aluminium housings.

Queller Straße 76-80
33803 Steinhagen
North Rhine-Westphalia
Germany
www.plasmatreat.de

Organisation type
Large enterprises

Sectors

Employees
250 up to 499

Turnover
More than €50m

Funding

Plasmatreat GmbH

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About this organisation

Main areas covered	Hybrid materials
Infrastructure	
Certifications	ISO 9001, ISO 14001
Keywords	Plasma technology, Atmospheric pressure, Plasma polymerisation, Hybrid materials, Coating
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Machines and plants	✓	✓	✓
Services & consulting			
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & automation Plant construction	✓	✓	✓
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering) Plasma process	✓	✓	✓
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP)	✓	✓	✓
Fibres Basalt fibres, Glass fibres			✓
Functional materials			
Metals Aluminium, Steel			✓
Plastics Thermoset plastics, Elastomers, Thermoplastics			✓
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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