

Sustainable functionalization technology for filters

∞ CONTINUOUS PRODUCTION

Non-stop treatment without need for vacuum.



ONE STEP DRY PROCESS

Achieve fibre surface functionalization in a single step, without drying or curing process.



PERMANENT

Covalent binding of pure organic chemistry by using cold plasma as a delivery system.



ECO-FRIENDLY

Very low in energy consumption without need for solvents.



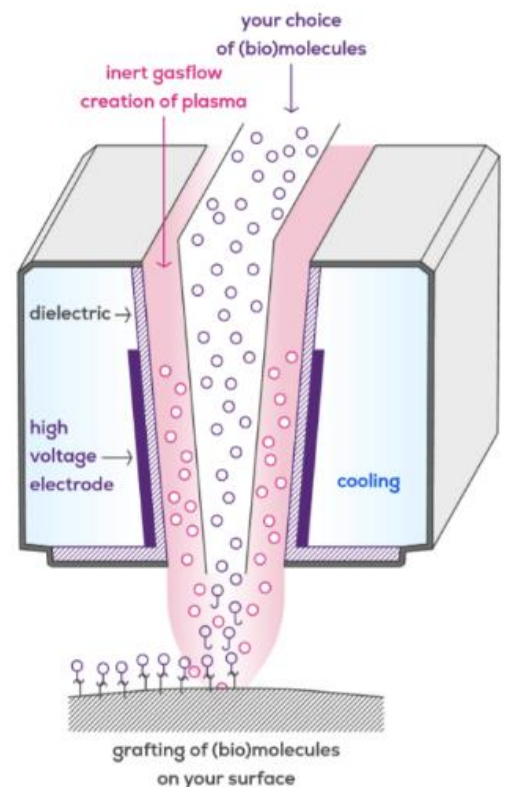
VERSATILE

Wide range of precursor molecules for different functions (well beyond simple electret charging).



SCALABLE

Variable width plug-and-play industrial roll-to-roll machines or bespoke in-line units.



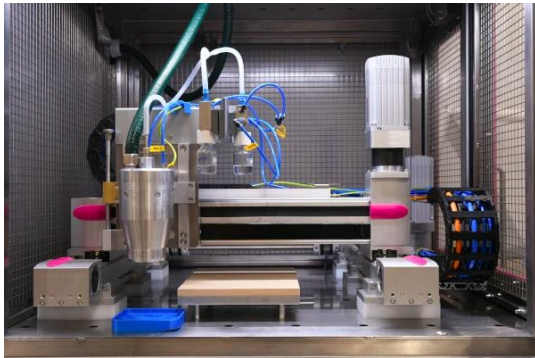
Creating value in many markets

Air or Liquid Filtration – Batteries – Medical Devices

Automotive – Personal Protective Equipment – HVAC – Industrial – Aerospace

HEALTHCARE TECHNOLOGY	LEAF™ TECHNOLOGY	MOLECULARGRIP™ TECHNOLOGY
Targeted filtration Virucidal Antimicrobial Biomolecule immobilization Essential oils	Repellence Permanent hydrophilic Anti-stick Antifouling Controlled adhesion	Stronger adhesion Priming Longer open time Permanent activation Composites

R&D services and equipment to drive innovation



MPG's innovation services:

- A team of scientists specialized in plasma chemistry running projects for customers.
- PlasmaSpot® and PlasmaLine® R&D machines available as a service or rental.
- MPG's new and patented process allows you to develop unique solutions.
- Sales of R&D and pilot lines for your own use with support from MPG.

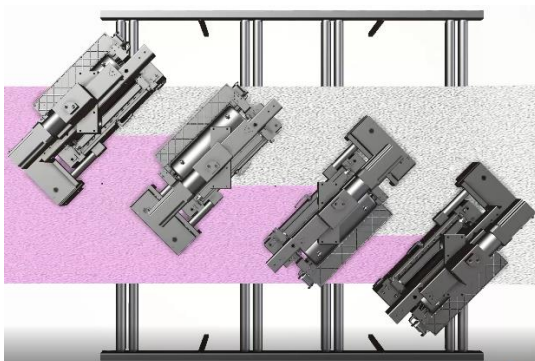
Robust equipment available for industrial production

MPG's machines for roll goods manufacturers:

- Plug-and-play roll-to-roll system.
- Fully monitored performance and traceability.
- Low manpower need: only at roll change.
- Automated inline quality control system for 100% inspection.
- Quick change chemistry cartridges to ensure quality and productivity.
- Optimized for coating of fabrics and films.



NEW: variable width concept for cost effective coating



New MPG PlasmaLine® 1600:

- Coating heads adjust automatically to desired width between 1000 mm and 1600 mm.
- Full utilization of energy and chemistry, with same cost per square meter regardless of width.
- Competitively priced when compared to other plasma coating technologies.
- A total cost of ownership and profitability calculator is available upon request.

How to get new products to market fast?

1. Contact MPG for a feasibility study
2. Run an innovation day project at MPG in Luxembourg
3. Prototyping and scale-up using MPG pilot line services
4. Start production when your MPG machine arrives