

Henniker Plasma Targets Throughput and Process Stability with Stratus Manufacturing Solution



STRATUS PLASMA MANUFACTURING CELLS

July 2026 – Henniker Plasma, UK

Manufacturers scaling a bonding, coating or printing process to full production rarely struggle with the science of surface treatment; they struggle with holding it steady, line after line, shift after shift. As volumes rise, small variations in surface preparation compound into rejected parts, reworked assemblies and unplanned downtime. Henniker Plasma is positioning its Stratus system to address exactly this pressure point, bringing repeatable plasma surface treatment to production environments where throughput and process stability determine the cost of every unit.

THE PRODUCTION-SCALE CHALLENGE

Plasma activation is a robust and effective way to prepare engineering materials for bonding, coating and printing. A plasma discharge cleans the substrate at a molecular level and introduces functional groups that raise surface energy and improve wettability. In the laboratory the result is immediate and well understood. On a production line the harder question is consistency: can that same increase in surface energy be delivered on every component, at line rate, without operator intervention.

When surface preparation drifts, the downstream symptoms are familiar. Adhesion becomes variable, delamination appears in service, and quality teams tighten inspection to compensate. Each response adds cost and slows the line. The underlying issue is process control, not plasma chemistry.

Henniker Plasma, a leading manufacturer of plasma surface treatment equipment, targets throughput and process stability with its **Stratus Plasma Manufacturing Cells**.



Stratus Series III System.

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THE STRATUS SOLUTION

Stratus is designed for production-scale treatment rather than one-off trials. Built on Henniker's proven plasma architecture, it applies controlled, repeatable surface activation across larger throughput volumes while holding treatment parameters stable across extended runs. The emphasis is on reliability under real operating conditions: consistent surface energy on every part, predictable adhesion, and treatment that behaves the same at the end of a shift as it did at the start.

This level of process control matters most where surface treatment sits inside a wider manufacturing flow. Consistent activation reduces the adhesion variability that leads to delamination and rework, supports tighter first-pass yield, and lets production teams treat plasma preparation as a dependable process step rather than a source of uncertainty. Engineers can integrate it into established lines and rely on it to keep pace.

BUILT FOR ADVANCED MANUFACTURING ENVIRONMENTS

Stratus is aimed at manufacturers in sectors where bond integrity and surface quality are non-negotiable, including medical device production, automotive and aerospace assembly, electronics, and precision component manufacturing. In each, the value of plasma treatment is realised only when it is repeatable at volume. Henniker works with customers to match the system to their components, materials and line requirements rather than supplying equipment in isolation.



Stratus Series V System.



On a production line, **the question is never whether plasma works**. It's whether it works the same way on the thousandth part as it did on the first. That is what we have engineered Stratus around: **stable, repeatable surface activation** that holds across long runs, so manufacturers can design it into their process and trust it to keep pace.

Sam Dickenson, Head of Test & Installation at Henniker Plasma



Manufacturers can put Stratus to the test on their own components at a **Henniker Discovery Day**: a hands-on session at Henniker's UK facility where you can see plasma treatment applied to your specific materials and **validate the results before committing to capital equipment**. It is a practical, low-risk way to move from interest to evidence. To book a Discovery Day, fill in the contact us form plasmatreatment.co.uk.

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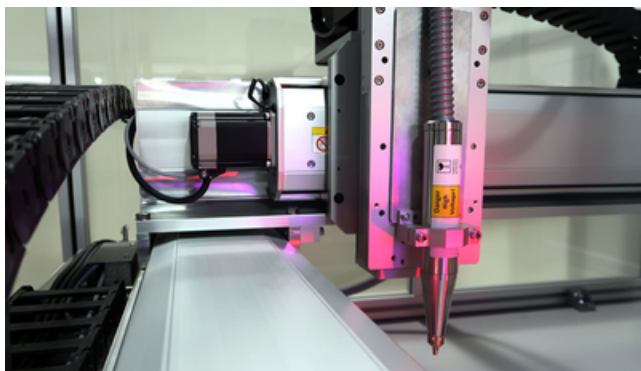
ABOUT HENNIKER PLASMA

Henniker Plasma is one of the leading manufacturers of plasma treatment systems for cleaning, surface activation to improve adhesion, and functional nano-scale coating.

Backed by more than 20 years of real-world experience in plasma surface treatment, Henniker's approach is application-led: the goal is a measurable, repeatable production outcome, not an abstract capability claim. As advanced manufacturers push for higher yields, cleaner processes and fewer chemical pre-treatment steps, reliable plasma activation at production scale becomes a practical route to all three.

Henniker's advanced plasma systems are configurable tools that are both robust enough for reliable, repeatable industrial processing and at the same time flexible enough for the research into, and development of, leading-edge plasma processes. They transform materials, adding significant functionality and value.

For more information about Henniker Plasma visit:
plasmamatreatment.co.uk



Stratus Series VI System.

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For Immediate Release

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