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## **Thermwood LSAM Additive Printer 510 LIVE Printing at JEC World 2024**

Thermwood will be LIVE printing an autoclave capable tool for composite layup of an airplane engine air inlet duct on an LSAM Additive Printer 510 in the LIVE Demo Area located in Hall 6 at JEC World 2024 in Paris, France on March 5<sup>th</sup>-7<sup>th</sup>. We will print a new tool each day with material from a different material supplier (Sabic LNP™ THERMOCOMP™ AM EC004EXAR1, Airtech Dahltram I-350CF, and Techmer PM PESU-1810).

In addition to LIVE printing throughout the day, we will also present an interactive demonstration once per day that will allow participants to see a real-world application of creating high-temp tooling with an LSAM system. Topics covered will be the collaborative projects, ongoing research initiatives and illuminating case studies that help accelerate advancements in comprehensive knowledge and future innovation within the field. Eduardo Barocio, Assistant Director of Additive Manufacturing at Purdue University's Composite Manufacturing & Simulation Center will also be on hand to demonstrate their Additive3D software, a powerful tool that not only simulates workflow, but also predicts the printing and as-manufactured performance of parts produced through extrusion deposition additive manufacturing. Participants will have the unique opportunity to pose questions to our industry experts and gain valuable insights into how LSAM can elevate and optimize their production process. This live demonstration will help bridge the gap between theory and practical application and help understand the full potential of LSAM and how it can help enhance productivity and innovation. We will also have our regular booth staffed by our knowledgeable sales team that can help answer any questions you might have (Hall 6 P52).

This promises to be an exciting demonstration of the LSAM Additive Printer Large Scale Additive System. The LSAM Additive Printer features a single fixed gantry, 5'x10' moving table, 4' maximum print height and a maximum print temperature of 450°.

The LSAM Additive Printers systems are single gantry, moving table configurations and are available in two table sizes, 5'x5' and 5'x10'. The 5'x10' table is available in two configurations, 5' wide with

10' of front to back motion and 10' wide with 5' of front to back motion. Choice of configuration depends on several factors, fitting it existing factory floor space is one factor.

The specially designed, highly rigid tab and slot, structural steel gantry also incorporates a fume extraction system that pulls print fumes through specially designed activated charcoal filters to remove them and "sweeten" the air.

LSAM Additive Printers use the exact same print head mechanism as all the others, including the largest LSAM Systems which means that they produce the same amazing print quality that has made LSAM the leader in large scale additive printing. They also use the same highly advanced Ultra 6 control with all its exclusive, patented print features and capability.

The systems come standard with a single hopper polymer dryer for applications that don't change print material very often. For installations that print a wider variety of materials, a dual hopper dryer is available as an option.

An enclosure that surrounds the machine is also available. The machine with the full enclosure can also be built to meet European CE standards.