

AddUp and Interspectral join forces in a new development program and license agreement to reduce Additive Manufacturing quality inspection costs.

AddUp and Interspectral join forces to reduce quality inspection costs and improve efficiency by developing an advanced AM Monitoring data visualization solution. This new solution will be available globally on all new AddUp systems equipped with Melt Pool Monitoring.

Clermont-Ferrand, September 28, 2022, AddUp, a global metal additive manufacturing OEM offering multi-technology production systems, well known for its FormUp® and BeAM 3D printers, has entered a development and license agreement with the Swedish 3D visualization and data fusion software company Interspectral.

AddUp's FormUp® 350 includes one of the most advanced monitoring suites available on the market, based on three different solutions working in synergy. After the successful launch of AddUp Dashboards last February and the introduction of a closed-loop powder bed monitoring solution, the company is now focused on melt pool control. Based on multi-sensor hardware mounted into the optical chain, this system tracks in real-time power and emissivity drifts, along with physical position of the lasers' spot by achieving micron-level accuracy for every single layer and tailoring datasets to different user profiles, this solution provides valuable insights for many different job functions, such as quality experts working towards serial production.

"AddUp's melt pool monitoring solution has already generated vast interest on the market, especially in the Aerospace segment. But to go even further, we wanted to provide the best-in-class multi-channel digital twin which would be able to track and focus potential defective zones during production while working on pure RAW data" explains Mathieu Roche, Software Product Manager at AddUp. "Interspectral and its AM Explorer software have been a no-brainer when we started looking for the best solution available."

AM Explorer, developed by Interspectral, is an OEM agnostic 3D visualization software that makes it possible for end users to create multi-channel digital twins from design, simulation, monitoring, and post-build part analysis data collected during the AM process.

About Interspectral:

Interspectral is a tech company that is specialized in 3D-digitisation, 3D visualization and advanced data fusion, based in Norrköping, Sweden.

The company operates on the global market and have customers in over 20 countries.

Interspectral develops AM Explorer, a visualization software package that makes it possible to fuse, explore and analyze simulation, monitoring and post build part analysis data from the metal additive manufacturing process.

To learn more, visit: www.amexplorer.com

With AM Explorer, AddUp customers will now be able to explore and analyze the massive melt pool datasets in full 3D with data collected both during and after production.

“This is a major breakthrough in the additive manufacturing industry and the first in-depth OEM integration of our multi-channel visualization solution AM Explorer. Through this in-depth integration, Interspectral and AddUp have empowered 3D printers with AM Explorer to achieve optimized efficiency for additive manufacturing production” says Isabelle Hachette, CEO at Interspectral.

The development and license agreement entered by both parties will lead to new major releases of AM Explorer that will be bundled with AddUp’s melt pool monitoring solution. A first version of AM Explorer with AddUp integration will be demonstrated at Formnext this November in the AddUp booth (Hall 12, E01).



AM Explorer by Interspectral, displaying melt pool data from AddUp’s FormUp 350 system.

About AddUp:

AddUp, a joint venture created by Michelin and Fives, is a global metal additive manufacturing OEM offering multi-technology production systems, including the FormUp® range of robust and open-architecture Powder Bed Fusion (PBF) machines, as well as the BeAM Modulo and Magic lines of industrial Directed Energy Deposition (DED) machines.

The combination of these processes allows AddUp customers the flexibility to choose the technology best suited for their specific application while also offering a unique ability to meet technical challenges, such as manufacturing parts combining these complementary technologies. AddUp’s FormUp 350 PBF machine is modular and scalable to provide the highest productivity while ensuring user safety. The DED machines are designed for industrial production and equipped with in-house designed and developed nozzles to provide maximum precision and very high productivity. To provide customers with a true Industry 4.0 solution, AddUp also provides a complete monitoring solution providing quality assurances after each and every build.

AddUp is headquartered in Cébazat, France, with its North American subsidiary based out of Cincinnati, Ohio. In addition to the machine design and manufacturing, the AddUp group also offers part production, POC production, metal AM consulting services, AM training, and design for AM, making AddUp your one-stop for metal AM.

To learn more visit:

www.addupsolutions.com

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