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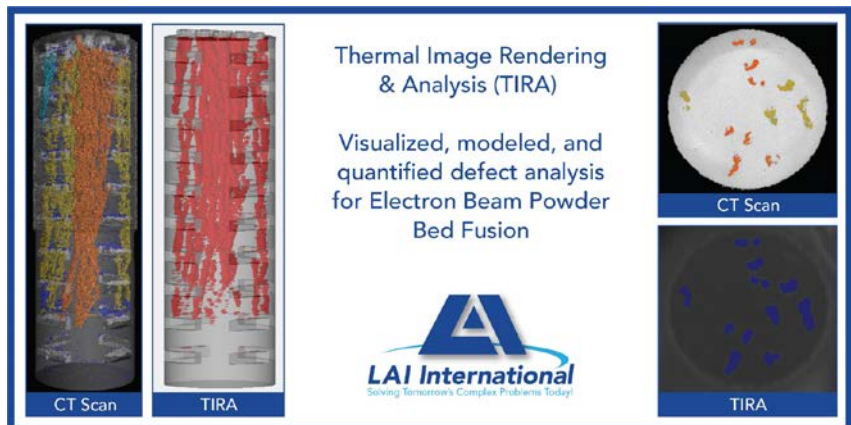
LAI International Introduces TIRA for EB-PBF Defect Evaluation

Thermal Image 3D Rendering that Cuts Costs and Saves Time

Tempe, Arizona – July 1, 2018 – LAI International, the premier provider of highly-engineered, mission-critical components since 1979, is pushing the bounds on efficient quality analysis for Electron Beam Powder Bed Fusion by developing Thermal Imaging Rendering & Analysis (TIRA) technology.

The Additive Manufacturing industry has been leaning on expensive and comprehensive NDT technologies such as CT Scan and X-ray to analyze the internal material of additively manufactured parts. This method continues to add cost and lead-time to a technology known for speed and efficiency.

“The LAI TIRA technology is utilizing in-process near-infrared images collected during the build to conduct an in-depth analysis on possible indications. Quantitative studies have shown the TIRA results vs. CT Scans to be consistent and favorable for location, quantity, and size of defects” said Caitlin Oswald, Additive Manufacturing Director at LAI.



Ms. Oswald added, “We now offer this TIRA service with all our EB-PBF builds, giving our Customers more confidence in the delivered material quality with less cost and time.”

The creator of the software, Mat Lewis of LAI, explained that “after seeing the effectiveness of in-process thermal imaging, we developed TIRA as a quick, quantitative method of analyzing part quality before they even leave the machine.” When asked about the benefits he has already experienced from the new system, Mr. Lewis said: “The ability to render 3D models moments after a build completion has not only expedited our quality analysis process, but also drastically improved it and our ability to identify and resolve issues while continuously learning.”

Provided in the post-build quality package, the TIRA report provides a list of defect indication location, sizes, and quantities for each individual part, as well as a corresponding model to visualize the exact location and shape of each indication.

For more information, contact LAI at AdditiveManufacturing@LAlco.com, or stop by their booth at IMTS 2018.

About LAI International:

LAI International is a premier provider of highly-engineered, mission-critical components since 1979, and is renowned for our cutting-edge precision component manufacturing and solutions. LAI helps OEMs meet production goals by delivering high quality complex components on time, every time, at the right value.

LAI specializes in the core phases of the product lifecycle, from R&D (Research & Development) to NPI (New Product Introduction), LRIP (Low Rate Initial Production) and FRP (Full Rate Production). In addition, LAI is an expert in cutting edge technologies, as demonstrated by becoming the world's first NADCAP certified Additive Manufacturer in the world.

As a true strategic partner, LAI is focused on solving tomorrow's complex component manufacturing problems today. For more information, please visit www.LAlco.com

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