

PrintSky, a Joint Venture between Sogclair and AddUp, embarks on Collins Aerospace's Project to develop New Generation of Actuation Systems

Blagnac, September 15, 2022, PrintSky, a French joint venture between Sogclair and AddUp created in 2019 and specialized in developing and manufacturing complex metal 3D printing components, has been selected by Collins Aerospace to participate in its research program for a new generation of flight actuation.

Supported by the French Civil Aviation Authority (DGAC) as part of the France Relance initiative, this program focuses on developing new technologies for a more sustainable aviation by 2030. PrintSky will bring to this project its expertise in design, manufacturing and qualification of additive manufacturing parts in the aerospace industry.

An electromechanical actuation is a complex system integrating various components (sensors, engine, electronic cards, etc...). The structure of these actuation systems, designed and manufactured by PrintSky, is meant to ensure several functions: to resist mechanical loads, to dissipate the heat emitted by the components or to be tight and insensible to electromagnetic disturbances. Given the complexity and criticality of this structure, it is an interesting subject for additive manufacturing. "Thanks to our technologies, we can optimize the structure of the actuation system and integrate multi-physical functions such as a heater and other peripheral parts" explains Nicolas Correge, Sogclair New Technologies Manager and PrintSky Manager.

PrintSky is especially proud that it relies on 3D printing technologies developed and manufactured in France by AddUp. Thanks to this disruptive process it is possible to produce complex geometrical parts that are less bulky, lighter and made of durable materials. "PrintSky offers a multifunctional solution for new generation equipment such as heat exchangers and electromechanical components so as to contribute to the transformation of the aeronautics industry and meet decarbonation challenges" adds Nicolas Correge.

About Sogclair:

Supplier of innovative, high added value solutions for safer and more efficient mobility, SOGCLAIR brings its skills in high-quality engineering and production to a broad range of cutting-edge sectors, notably aeronautics, space, vehicle, rail and defense. Supporting its customers and partners from the design and simulation stages through to the end of the product's lifetime, all along the production chain through to entry into service, the collaborators are working worldwide to offer a high-quality, proximity service to all its customers.

To learn more visit: www.sogclair.com

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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