

At JEC World 2025, Daher reaffirms its leadership in advanced composites for aerospace

Villepinte, France, March 4, 2025



Daher and its Dutch subsidiary KVE are exhibiting at JEC World 2025, the leading international composites show, which is being held March 4-6 at the Paris-Nord Villepinte exhibition center (Hall 6, Stand G62). The Daher Group is showcasing its expertise in advanced materials for aerospace with two key highlights: a full-scale welded thermoplastic torsion box for aircraft applications, now validated and ready for large-scale testing; and daily demonstrations of KVE's thermoplastic induction welding process. These innovations underscore Daher's commitment to a lighter, more efficient, and more sustainable aviation industry.

A stronger presence

For this year's JEC World show, Daher has doubled the size of its booth – now located in the exhibition's central aisle. The Group is presenting a full-scale demonstrator of its welded thermoplastic torsion box, representing the stabilizer of a tailplane for the Daher-built TBM aircraft. This prototype has reached TRL 5 maturity (Technology Readiness Level) after a series of tests in a simulated environment closely replicating its final use. It is now ready for large-scale validation, and could serve



as a model for the wing and tail components of tomorrow's commercial aircraft: lighter, more efficient, and more environmentally friendly.

As a flagship of Daher's technological advancements, this demonstrator – selected for the JEC Awards – incorporates a range of cutting-edge manufacturing processes: Automated Fiber Placement (AFP), Direct Stamping®, and co-consolidation of materials. The assembly of the torsion box is achieved through KVE's exclusive KVE Induct® induction welding process, a technology that is revolutionizing the manufacturing of aerostructures.

Technological focus: thermoplastic welding

For the first time at JEC World, Daher is presenting daily demonstrations of the KVE Induct® thermoplastic welding process.

This innovative process eliminates the need for traditional metal rivets in the assembly of aerostructures, offering significant advantages in terms of weight reduction, production speed, and recyclability.

The benefits are numerous: a weight reduction of up to 20%; the saving of assembly time due to the elimination of mechanical fasteners; and improved durability, with fully recyclable components. This technology is perfectly aligned with the aerospace sector's decarbonization goals.

The assembly and certification of thermoplastic parts without fasteners is a major area of research and development for Daher, which currently is working – in partnership with the Luxembourg Institute of Science and Technology (LIST) – on a new demonstrator using infrared welding on aircraft ribs. An initial section of this demonstrator will be showcased on Daher's exhibit stand at JEC World.

Towards more sustainable aviation

Overall, Daher is presenting some 15 advanced composite parts at JEC World, demonstrating the breadth of its expertise: large, complex ribs; radomes; rotor blades; thick composite pylons; flight control pedal assemblies made from recycled thermoplastic composites (production scraps); and much more.

“With the growing maturity of our composite technologies and the gradual industrialization of thermoplastic welding, we are taking a decisive step toward more sustainable aviation,” explained Dominique Bailly, the Director of Research & Development at Daher, and head of the company's Shap'in tech center dedicated to the aerostructures of the future in Nantes, France. “These developments demonstrate our commitment to offering innovative solutions that directly address the decarbonization challenges facing the aerospace sector. Our medium-term goal is to produce complex, large-scale parts for tomorrow's commercial aircraft targeted for the 2030-2035 timeframe.”




About Daher - www.daher.com

As an aircraft manufacturer, industrialist, industrial service provider and logistician, Daher today has approximately 14,000 employees for a revenue of 1.8 billion euros in 2024.

With its family ownership, Daher has been focused on innovation since its creation in 1863. With locations in some 15 countries in Europe, North America and Asia, Daher designs and develops value-added solutions for its aeronautical and industrial customers and partners.



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