



EMBRAER CONDUCTS STRUCTURAL WING TEST FOR NEW TECHNOLOGIES DEMONSTRATION PLATFORM

News / Manufacturer



Embraer has successfully completed the initial structural fatigue tests of the wing that will be used in its New Technologies Demonstration Platform. The innovation project is funded by National Development, Scientific and Technological Funding – under the support of Brazil's Ministry of Science, Technology and Innovation and Finep, which promotes Brazil's economic and social development through public funding for Science, Technology and Innovation – and is focused on research and development of low and medium Technology Readiness Levels. Alltec, Equatorial, Motora, and TecCer are participating as co-executors.

Cleiton Silva, Vice President of Technology and Advanced Projects at Embraer commented: "We are excited about the evolution of the project, which brings together industry, government, and academia for the development of applied research that contributes to the generation of knowledge and people training. Technological innovations are fundamental to accelerating the sustainable aviation of the future and strengthening the competitiveness of Brazil's industry."

The first phase of this project involves the development of unprecedented processes and methods to support analysis in ground test benches. The composite wing's reference model structure utilizes new production techniques and was subjected to progressive loads that exceeded more than 200% of the expected limit.

The static loading test was conducted at ACS Aviation, the demonstrator platform supplier and Embraer partner in São José dos Campos, Brazil. The test validated innovative processes, methodologies, and new materials. The next steps include manufacturing the flying laboratory's fuselage and empennage.

Brazilian Institutes of Science and Technology are involved in the research, such as the Technological Institute of Aeronautics (ITA), the Mauá Institute of Technology (IMT), the Institute of Technological Research (IPT) and the School of Engineering of São Carlos, which belongs to the University of São Paulo (USP).



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