WORLD' FIRST FULLY AUTOMATED AUTOROTATION FEATURE AHEAD OF SKYRYSE-EQUIPPED PRODUCTION HELICOPTER REVEAL

News / Manufacturer



Skyryse completed world' first-ever fully automated autorotation emergency landing procedure, one of dozens of first-of-its-kind safety features that will come standard on all Skyryse technology-equipped airplanes and helicopters. Skyryse will unveil the first production helicopter featuring its technology — including the world's first simplified control system — in Q1 of next year.

Skyryse's proprietary technology is a highly automated flight control system capable of being installed on any aircraft and is the first and only system that works with the pilot through a reimagined HMI (Human Machine Interface) to manage complex emergency procedures — including one of the most dangerous and harrowing scenarios in all of general aviation — the failure of a helicopter engine.

Mark Groden, founder and CEO of Skyryse, commented: "Every year, more than 400 people lose their lives in general aviation accidents just in the United States alone. Fully automated autorotation is just one example of how our technology will bring a commercial grade of safety and

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beyond to general aviation."

In this situation, helicopter pilots have less than two seconds to perform a fully manual series of multiple control movements in a maneuver called an autorotation. Because of the complexity of current control systems, no helicopter has ever been able to automate this maneuver until now. Using proprietary redundant flight controls and a suite of sensors, the Skyryse system quickly recognizes a power failure and sets in motion multiple procedures, and with a push of a button, makes the landing uneventful. From entry to steady descent, it lowers the pitch, aligns the nose, manages aircraft stability, completes the flare, and lands gracefully at the desired landing location.

Skyryse has completed dozens of automated autorotations, with the first fully automated autorotation from altitude fully to the ground achieved in a Robinson R66 outfitted with Skyryse technology at their Los Angeles-area Flight Test and Performance Facility, on July 22, 2023, with Guinness World RecordsTM certifying the record for first automated autorotation landing by rotorcraft.

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